

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 227 Seconds  
(without alignments)  
8623.403 Million cell updates/sec

Title: US-09-989-920-100

Perfect score: 2754

Sequence: 1 gccagagcagcctcagctt.....aaaaataaaagatggggc 2754

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 35539441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*

2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*

5: /cgn2\_6/ptodata/1/ina/pctus\_COMB.seq.\*

6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1747.6	63.5	1853	3	US-09-232-160-3
2	52	1.9	7218	1	US-08-232-463-14
3	49	1.8	6330	3	US-09-880-427-2
4	49	1.8	6330	3	US-09-306-538B-2
5	49	1.8	19806	4	US-09-740-028A-3
6	49	1.8	19806	4	US-10-118-037-3
7	47	1.7	265	4	US-09-513-999C-27278
8	42.6	1.5	640681	4	US-09-790-988-1
9	41.6	1.5	210	4	US-09-248-796A-12137
10	41.4	1.5	329	4	US-09-513-999C-10733
11	40.8	1.5	318	4	US-09-513-999C-11322
12	40.8	1.5	398	4	US-09-513-999C-23077
13	40.4	1.5	1141	4	US-09-806-708B-22
14	40.4	1.5	640681	4	US-09-790-988-1
15	39.6	1.4	1107	4	US-09-248-796A-8906
16	39.4	1.4	588	3	US-09-328-111-321
17	39.4	1.4	5852	1	US-07-867-106-2
18	39	1.4	303	4	US-09-601-198-179
19	38.8	1.4	9636	1	US-08-323-170B-1
20	38.8	1.4	9636	3	US-08-954-441-1
21	38.4	1.4	2422	1	US-07-867-106-5
22	38.4	1.4	5852	1	US-07-867-106-2
23	38.4	1.4	54945	4	US-09-967-669-10
24	38.2	1.4	1099	4	US-09-270-767-11371
25	38.2	1.4	3009	4	US-09-248-796A-6806
26	38.2	1.4	3454	4	US-09-270-767-11909
27	38.2	1.4	5185	3	US-08-971-395-5

ALIGNMENTS

RESULT 1

US-09-232-160-3  
; Sequence 3, Application US/09232160  
; Patent No. 6368794

; GENERAL INFORMATION:

; APPLICANT: Steve Daniel

; APPLICANT: James Gilmore

; APPLICANT: Susan G. Stuart

; APPLICANT: Laura Stuve

; TITLE OF INVENTION: DETECTION OF ALTERED EXPRESSION OF GENES REGULATING CELL

; TITLE OF INVENTION: PROLIFERATION

; FILE REFERENCE: PA-0003 US

; CURRENT APPLICATION NUMBER: US/09/232,160

; CURRENT FILING DATE: 1999-01-15

; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: PERL Program

; SEQ ID NO 3

; LENGTH: 1853

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE: -

; OTHER INFORMATION: 1283330

US-09-232-160-3

C 28	38.2	1.4	8561	3	US-09-112-450-3	Sequence 3, Appli
C 29	38.2	1.4	8561	4	US-09-419-291A-3	Sequence 3, Appli
C 30	38.2	1.4	98844	4	US-09-791-211-10	Sequence 10, Appli
C 31	38	1.4	2007	2	US-08-743-637B-169	Sequence 169, App
C 32	38	1.4	2007	3	US-08-526-840B-169	Sequence 169, App
C 33	38	1.4	2028	3	US-09-134-001C-1710	Sequence 1710, Ap
C 34	37.8	1.4	4140	3	US-08-894-731-2	Sequence 2, Appli
C 35	37.8	1.4	8920	2	US-08-446-855A-1	Sequence 1, Appli
C 36	37.8	1.4	8920	3	US-09-150-741-1	Sequence 1, Appli
C 37	37.8	1.4	1664976	4	US-08-916-421B-1	Sequence 1, Appli
C 38	37.8	1.4	1664976	4	US-09-692-570-1	Sequence 3, Appli
C 39	37.4	1.4	2663	1	US-08-136-743B-3	Sequence 70, Appli
C 40	37.4	1.4	6040	4	US-10-204-708-70	Sequence 3, Appli
C 41	37.4	1.4	74962	4	US-09-685-853A-3	Sequence 3767, Ap
C 42	37.2	1.4	942	4	US-09-270-767-3767	Sequence 19049, A
C 43	37.2	1.4	942	4	US-09-270-767-19049	Sequence 5, Appli
C 44	37.2	1.4	1928	4	US-09-674-836B-5	Sequence 4, Appli
C 45	36.8	1.3	80246	3	US-09-078-294-4	

Query Match	63.5%;	Score	1747.6;	DB 3;	Length	1853;			
Best Local Similarity	99.8%;	Pred.	No. 0;						
Matches	1750;	Conservative	0;	Mismatches	4;	Indels	0;	Gaps	0;
QY	994	TGTTTCTCCCCCATCACAAAAAATTTCTTATTTTAGTACACATGTTATTACCAA	1053						
Db	1	TGTTTCTCCCCCATCACAAAAAATTTCTTATTTTAGTACACATGTTATTACCAA	60						
QY	1054	AAATATGACTCAATTTGTTATTTTGATTTTATCAATTTTAAATTTCTGGAAATTTGT	1113						
Db	61	AAATATGACTCAATTTGTTATTTTGATTTTATCAATTTTAAATTTCTGGAAATTTGT	120						
QY	1114	TTGCTCTTACGCCAACATAATTTGATTTTGCTCTTGCTCTGAAGGCCCAAAATATTT	1173						
Db	121	TTGCTCTTACGCCAACATAATTTGATTTTGCTCTTGCTCTGAAGGCCCAAAATATTT	180						
QY	1174	ACCGTCTAGCCGGTTACAGAAAAGCTGCTGACTACTGAGCCAGACCTCCATTACCTCC	1233						
Db	181	ACCGTCTAGCCGGTTACAGAAAAGCTGCTGACTACTGAGCCAGACCTCCATTACCTCC	240						
QY	1234	ATCCCTGTTGGATTATTTAAAGAAAGCCCTCAGACAGTAGGGCTTTTTTAAAGATAAA	1293						
Db	241	ATCCCTGTTGGATTATTTAAAGAAAGCCCTCAGACAGTAGGGCTTTTTTAAAGATAAA	300						
QY	1294	ATGACTTGGTTTGGCTTGGAGGAGGGAAGCATTCAGATCAGCGGTTTCTGCATTAAAC	1353						





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LENGTH: 19806
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)-(19806)
OTHER INFORMATION: n = A,T,C or G
"US-09-740-028A-3

Query Match
Best Local Similarity 1.8%; Score 49; DB 4; Length 19806;
Matches 91; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

" QY 1061 TACTCAATATTGATTTGGATTTTATCAATTTAAATAATTTGGAATTTGTTGCTCT 1120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16677 TACAAGCTGATAAGTGTGTTTATTTTAAATGGTTACATTTGTAACCTGTTATATAAG 16736

" QY 1121 TACGCCAACATAATATTGATTTGGCTCTGGCTCTGAAAGCCCAAAATATTACCGTCT 1180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16737 TACCTGATAATATCATTAATTTGTTCTGGCTGCGCATGCTTAAATATTAACTCTCT 16796

" QY 1181 AGCCCGTTACGAAAGTCTGCTGACTACTAGCCAGACC 1221
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16797 GGCCTTTAAGAAAAAAGCTGCTGACCCCTGCTCTAGATC 16837

RESULT 6
US-10-118-037-3
Sequence 3, Application US/10118037
Patent No. 6797495
GENERAL INFORMATION:
APPLICANT: GONG, Fangcheng et al.
TITLE OF INVENTION: ISOLATED HUMAN DEHYDROGENASES, NUCLEIC
ACID MOLECULES ENCODING THESE HUMAN DEHYDROGENASES, AND USES
THEREOF
FILE REFERENCE: CL001054DIV
CURRENT APPLICATION NUMBER: US/10/118.037
CURRENT FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 09/740,028
PRIOR FILING DATE: 2000-12-20
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 19806
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)-(19806)
OTHER INFORMATION: n = A,T,C or G
"US-10-118-037-3

Query Match
Best Local Similarity 1.8%; Score 49; DB 4; Length 19806;
Matches 91; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

" QY 1061 TACTCAATATTGATTTGGATTTTATCAATTTAAATAATTTGGAATTTGTTGCTCT 1120
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Db 16677 TACAAGCTGATAAGTGTGTTTATTTTAAATGGTTACATTTGTAACCTGTTATATAAG 16736

" QY 1121 TACGCCAACATAATATTGATTTGGCTCTGGCTCTGAAAGCCCAAAATATTACCGTCT 1180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16737 TACCTGATAATATCATTAATTTGTTCTGGCTGCGCATGCTTAAATATTAACTCTCT 16796

" QY 1181 AGCCCGTTACGAAAGTCTGCTGACTACTAGCCAGACC 1221
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16797 GGCCTTTAAGAAAAAAGCTGCTGACCCCTGCTCTAGATC 16837

RESULT 7
US-09-513-999C-27278
Sequence 27278, Application US/09513999C
Patent No. 6783961
```

```
%
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclert, A.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59.US2.REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 27278
LENGTH: 265
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 63
OTHER INFORMATION: k=g or t
"US-09-513-999C-27278

Query Match
Best Local Similarity 1.7%; Score 47; DB 4; Length 265;
Matches 74; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 1103 TCGAATTTGTTGCTCTTACGCCAACATAATATTGATTTGGCTCTTGGCTCTGAAAGC 1162
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20 TGTAAAGCTGTTATTAAGTACCTGCTGATAATATCAATTAATTTGTCCTTGGCTCTGCAATGC 79

QY 1163 CCAAAATATTACCGCTCTAGCCGTTACAGAAAAAGTCTGCTGACTACTAGCCAGACC 1221
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 80 TTAAATATTAATCTCTGCGCCCTTTAAGAAAAAAGCTGCTGACCCCTGCTCTAGATC 138

RESULT 8
US-09-790-988-1/c
Sequence 1, Application US/09790988
Patent No. 6632935
GENERAL INFORMATION:
APPLICANT: SHIGENOBU, SHUJI
APPLICANT: WATANABE, HIDEKI
APPLICANT: HATTORI, MASAHIRO
APPLICANT: SAKAKI, YOSHIYUKI
TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
FILE REFERENCE: 081356/0159
CURRENT APPLICATION NUMBER: US/09/790,988
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: JP2000-107160
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 640681
TYPE: DNA
ORGANISM: Buchnera sp.
"US-09-790-988-1

Query Match
Best Local Similarity 1.5%; Score 42.6; DB 4; Length 640681;
Matches 72; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1023 TTCTATTTTAGTAGAGATGTTTACAAAATATGCTACTCAATTTATGTTTGGGA 1082
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 390713 TTTTATTTTATTAATCATATTTTTCAGAAAAAAGATGTCATTAATTTTATGGAA 390654

QY 1083 TTTTATCAATTTAAAAATTTGGAATTTGTTGCTCTTACGCCAACATAATATTGATT 1142
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 390653 ATTGTGTTTATTAATCTGTAATTTTCCCTGCTCTATAAAAAATATTAGTTT 390594

QY 1143 T 1143
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Db 390593 T 390593
RESULT 9
US-09-248-796A-12137
; Sequence 12137, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 12137
; LENGTH: 210
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-12137
Query Match 1.5%; Score 41.6; DB 4; Length 210;
Best Local Similarity 67.0%; Pred. No. 0.018;
Matches 59; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
Qy 1011 CAAAAAATAATCTTATTTTAGTAGACATGATTTTACCAAAATATCTACTCAATTA 1070
Db 32 CAGAAAAAATAATCAAAATTTTAAATCCACATGGTTTAAAGAAAAAGAAAAATCTCAATA 91
Qy 1071 TTGATTTTGGATTTTATCAATTTTAA 1098
Db 92 TTGCATTTCTTTCATCACTAATAACA 119
RESULT 10
US-09-513-999C-10733/c
; Sequence 10733, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 10733
; LENGTH: 329
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-10733
Query Match 1.5%; Score 41.4; DB 4; Length 329;
Best Local Similarity 62.6%; Pred. No. 0.03;
Matches 82; Conservative 0; Mismatches 46; Indels 3; Gaps 1;
Qy 1044 TATTACCAAAATATGTAATTTTATTTTGGATTTTATCAATTTTAAATTTGT 1103
Db 323 TGTATCACAAAAATTCAGTATTAATATTTTGAATTTTATCAATAAATAATGT 264
Qy 1104 GGAATTTG---TTTGCTCTACGCCACATAATATTCATTTTGCCTCTGGCTCTGAA 1160
Db 263 GAAATTTTTCATTTCTCAATAATATAAAGGCTCAATTTTGCCTTTTGGCTCAAAA 204
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Qy 1161 GCCCAAAATAT 1171
Db 203 GCTTAACTTT 193
RESULT 11
US-09-513-999C-11322/c
; Sequence 11322, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 11322
; LENGTH: 318
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; LOCATION: 16
; OTHER INFORMATION: x=a or g
US-09-513-999C-11322
Query Match 1.5%; Score 40.8; DB 4; Length 318;
Best Local Similarity 52.3%; Pred. No. 0.044;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;
Qy 750 AGTGGAACTCTCTCATGCCCTTCCTGAGGAGCCCTGAGGTGGGACAGGGGCC 809
Db 201 ACTGAGAAGCTCGGCCGAGCAAGCGGGGTGCGGGGGCCGAGGCGCAATG 142
Qy 810 AGGGGAAGTTTTCAGGCCTTCATCAAGAGAACAAATCTCTCAGCTCCGACCCCTCATC 869
Db 141 GAGGCTATTTCTCAGGACACCGGAGATCCATCTCTCATCTCCGACCCCTCTC 82
Qy 870 CTGTATCAGCACTTACCGGTGTGTGACTGCCCTCTGCTAGCTAGCATAGGTG 921
Db 81 CTCTGTGCTCCCGGGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 30
RESULT 12
US-09-513-999C-23077
; Sequence 23077, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 23077
; LENGTH: 398
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; LOCATION: 144
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 Best Local Similarity 52.4%; Pred. No. 0.26;  
 Matches 87; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

975 ATCTTTGAACCCCAATGAAGTGTCTTCTCCCCATCACAAAAAAAATCTTTATTA 1034  
 QY  
 218 ATTTCGAAATTTATATCTACTGTGTTCTCTGTTATTTATTTATTATTATTATTATTA 159  
 Db

Qy	1035	GTAGACATGTATTACCAAAATATGTACTCAATTATTGTATTGGAATTTATCAATTT	1094
Db	158	TTATTATTATTATTGCAAAAGTCATTATTGTATTAGAAATCTGTGATTGATTATAATTT	99
Qy	1095	AAAAATTGTGAAATTTGTTTGCTCTTACGCCCAACATAATATTCAT	1140
Db	98	TGTAATTGATGAGATTGTCCTTTGTAATTGTTTCATTATTTTAT	53

Search completed: November 29, 2004, 14:19:17  
Job time : 236 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 8386 Seconds  
(without alignments)

11966.971 Million cell updates/sec

Title: US-09-989-920-100

Perfect score: 2754

Sequence: 1 grcagaagcagctcagctt.....aaaaataaaagatcgcc 2754

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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1: gb\_est1:\*

2: gb\_est2:\*

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4: gb\_est3:\*

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6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2726.8	99.0	3408	3	BC020554 Homo sapi
2	692	25.1	747	6	CD512690 AGENCOURT
3	680.4	24.7	766	6	CB242367 UI-CF-FNO
4	655	23.8	685	5	BU684754
5	640	23.2	642	5	BQ953674 AGENCOURT
6	629.8	22.9	791	4	BI518071
7	615	22.3	640	5	BQ045123 UI-CF-EN1
8	608	22.1	625	6	CB305549 UI-CF-EN1
9	604.2	21.9	611	6	CD723979
10	563.4	20.5	577	1	AI928242 w95h01.x
11	562.8	20.4	768	4	BM019092
12	560.2	20.3	577	5	BU678926 UI-CF-DU1
13	546	19.8	547	2	AM271767
14	532.4	19.3	535	2	AM173671
15	526	19.1	538	2	AM195353
16	520	18.9	525	6	CA944724 UI-CF-FNO
17	513.8	18.7	518	8	B2369653 UP 473-19
18	513.4	18.6	515	1	AI434765
19	513.2	18.6	518	1	AI678967
20	508	18.4	508	1	AI153375
21	506	18.4	506	2	BE138747
22	506	18.4	507	5	BQ012939
23	501	18.2	501	1	AI831850
24	500.4	18.2	522	2	BF223573

25	481	17.5	493	5	BC082334	BC082334	K-EST0087
26	479.2	17.4	487	2	BF592110	BF592110	7004903.x
27	476.4	17.3	490	2	BF437146	BF437146	7P87A02.x
28	473	17.2	473	1	AI453406	AI453406	tj37h08.x
29	467.4	17.0	472	5	EX110666	EX110666	BX110666
30	465.4	16.9	467	1	AI421402	AI421402	tf2se12.x
31	456	16.6	468	1	AI347069	AI347069	qp60c01.x
32	454.4	16.5	456	2	AW874390	AW874390	hp99d01.x
33	447.2	16.2	485	2	BE857167	BE857167	7g21d12.x
34	447	16.2	449	1	AI245431	AI245431	qk39e02.x
35	445.2	16.2	454	1	AI733680	AI733680	ov13h01.x
36	445	16.2	445	1	AI241361	AI241361	qk17e10.x
37	443	16.1	443	1	AI189643	AI189643	gd18f08.x
38	441.2	16.0	446	2	AW772502	AW772502	hn76d05.x
39	436.8	15.9	440	4	BM055156	BM055156	ie91b10.y
40	434.4	15.8	436	1	AI7522077	AI7522077	ti78d10.x
41	429	15.6	429	1	AI344815	AI344815	qp02g08.x
42	425	15.4	425	1	AI985135	AI985135	wr38b04.x
43	424.2	15.4	460	2	BE671688	BE671688	7b60e04.x
44	423.4	15.4	425	2	AW439823	AW439823	hb88d02.x
45	420	15.3	445	1	AI985235	AI985235	ws01a03.x

#### ALIGNMENTS

RESULT 1	BC020554	BC020554	3408 bp	mRNA	linear	HTC 04-MAR-2003
LOCUS	Homo sapiens, clone IMAGE:3049181, mRNA.					
DEFINITION	BC020554					
ACCESSION	BC020554.1	Gr:18088242				
VERSION	HTC.					
KEYWORDS	Homo sapiens (human)					
SOURCE	Homo sapiens					
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
REFERENCE	1 (bases 1 to 3408)					
AUTHORS	Strausberg,R.					
TITLE	Direct Submission					
JOURNAL	Submitted (03-JAN-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA					
REMARK	NIH-MGC Project URL: <a href="http://mgc.nci.nih.gov">http://mgc.nci.nih.gov</a>					
COMMENT	Contact: MGC help desk Email: <a href="mailto:cgapbs@mail.nih.gov">cgapbs@mail.nih.gov</a> Tissue Procurement: ATCC CDNA Library Preparation: Life Technologies, Inc. DNA Library Arrayed by: The I.M.A.G.E. Consortium (IiNL) Center, Stanford University School of Medicine, Stanford, CA 94305 Web site: <a href="http://www-shgc.stanford.edu">http://www-shgc.stanford.edu</a> Contact: (Dickson, Mark) <a href="mailto:mcd@paxil.stanford.edu">mcd@paxil.stanford.edu</a> Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.					

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>  
Series: IRAK Plate: 20 Row: a Column: 5  
This clone has the following problem: retained intron.

FEATURES	Location/Qualifiers
source	1..3408
	/organism="Homo sapiens"
	/mol_type="mRNA"
	/db_xref="taxon:9606"
	/clone="IMAGE:3049181"
	/tissue_type="Placenta, choriocarcinoma"
	/clone_lib="NIH MGC_10"
	/lab_host="DH10B"
	/note="Vector: PCMV-SPORT6"

ORIGIN

Query Match		99.0%; Score 2726.8; DB 3; Length 3408;	
Best Local Similarity		99.7%; Pred. No. 0;	
Matches 2731; Conservative 0; Mismatches 7; Indels 0; Gaps 0;			
QY	1	GCAGAGCAGCCTCAGCTTGGCAAGGTGGAGATGACTGCTGTTCCCTTCGCATTTGG	60
DB	671	GCAGAGCAGCCTCAGCTTGGCAAGGTGGAGATGACTGCTGTTCCCTTCGCATTTGG	730
QY	61	GGAAACAGGCTCCCTGGTAGCTCGATGATCTCTTTGATCTTGTGACCTCCGGA	120
DB	731	GGAAACAGGCTCCCTGGTAGCTCGATGATCTCTTTGATCTTGTGACCTCCGGA	790
QY	121	GAGTGGATGACGCTGGTGGCTTAGCTTTCTAGACAGTGTAAATTCGACTGGGCGATG	180
DB	791	GAGTGGATGAGCTGGTGGCTTAGCTTTCTAGACAGTGTAAATTCGACTGGGCGATG	850
QY	181	CCCCAGAGCAGGCAAGGTCTTAGAGGGGTCTCCACATGACTGGCTTCACACAGGCA	240
DB	851	CCCCAGAGCAGGCAAGGTCTTAGAGGGGTCTCCACATGACTGGCTTCACACAGGCA	910
QY	241	CTTCGGCTCGGTTGCATGCTCTGTGTCATCTTACCCTCCAGGGTTCAGGTAGGAAAT	300
DB	911	CTTCGGCTCGGTTGCATGCTCTGTGTCATCTTACCCTCCAGGGTTCAGGTAGGAAAT	970
QY	301	GTTTGTACCTCTCTGATTCGACCTCTTCCCATCGCCCTTAGGGACAGGGCTTGAG	360
DB	971	GTTTGTACCTCTCTGATTCGACCTCTTCCCATCGCCCTTAGGGACAGGGCTTGAG	1030
QY	361	GGCAGTGAAGCGTGGTTCAGGACCCAGGCTCTTGGACTGGCCAGGGGCAACCT	420
DB	1031	GGCAGTGAAGCGTGGTTCAGGACCCAGGCTCTTGGACTGGCCAGGGGCAACCT	1090
QY	421	GAGAGCTCTGAAACCCCACTTAGCTTCAGAGCTTCTGCAAAAGCTCTCTCTGCTT	480
DB	1091	GAGAGCTCTGAAACCCCACTTAGCTTCAGAGCTTCTGCAAAAGCTCTCTCTGCTT	1150
QY	481	TCCTTCCTCCCAATCTATGGGTACAGCTTAACAGATCTGAGGCAACTGCTGCTAG	540
DB	1151	TCCTTCCTCCCAATCTATGGGTACAGCTTAACAGATCTGAGGCAACTGCTGCTAG	1210
QY	541	TGGCCAGGCTGCACCTGCCATCCCGCTCTGCCACTTTAGGGCTTTCTAGAGGAGTG	600
DB	1211	TGGCCAGGCTGCACCTGCCATCCCGCTCTGCCACTTTAGGGCTTTCTAGAGGAGTG	1270
QY	601	TCCTTAGAAGTACTCTGAGGCAAGGTTTCTGCTCTCTGAGGGAGCTGATGGGA	660
DB	1271	TCCTTAGAAGTACTCTGAGGCAAGGTTTCTGCTCTCTGAGGGAGCTGATGGGA	1330
QY	661	TAAGGTGGGAAGACGGTCACTTGGGCCCCAGCTGGCCAGCTGGCGATGGGGAAA	720
DB	1331	TAAGGTGGGAAGACGGTCACTTGGGCCCCAGCTGGCCAGCTGGCGATGGGGAAA	1390
QY	721	CCAAACCATGTCCCGACGAGAGGGCCAGAGTGGGAACCTGTCTCATGCCCCCTTCCT	780
DB	1391	CCAAACCATGTCCCGACGAGAGGGCCAGAGTGGGAACCTGTCTCATGCCCCCTTCCT	1450
QY	781	GAGGAGCCTTGAGTGGGACAGGAGGCGGAGGAGTTTTCAGGCTTCATCAAAAGAGA	840
DB	1451	GAGGAGCCTTGAGTGGGACAGGAGGCGGAGGAGTTTTCAGGCTTCATCAAAAGAGA	1510
QY	841	ACAAATCTCAGCTCCGCAACCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	900
DB	1511	ACAAATCTCAGCTCCGCAACCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	1570
QY	901	CTTGTGAGTACGATAGGTGGGCGGACCTGGCCACTGCTGTTATGCACTGATTTA	960
DB	1571	CTTGTGAGTACGATAGGTGGGCGGACCTGGCCACTGCTGTTATGCACTGATTTA	1630
QY	961	TGATAGGGAATATTATCTTTGAACCCCAATGAAGTGTTCCTCCCATCACAAAAAAA	1020
DB	1631	TGATAGGGAATATTATCTTTGAACCCCAATGAAGTGTTCCTCCCATCACAAAAAAA	1690
QY	1021	AATTCCTATTTTAGTAGATGATTTACCAAAATATGACTCAATATTGATTTG	1080

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Db 2771 CACTAGCCAGTTTTCAGGAAGTCAACTGGAGGTTAGATGGGGCCAGGGTCCACAGC 2830
Qy 2161 TACTGATGSCCGAGCCAGGTTGAGCTTCTGTTGTCAGTCCGATCCGATCCCACTTGAGAT 2220
Db 2831 TACTGATGSCCGAGCCAGGTTGAGCTTCTGTTGTCAGTCCGATCCGATCCCACTTGAGAT 2890
Qy 2221 CTATGCTCTCAGATAGTGGGACAGTCTTTTGTGTCACAGTGTGCTCTGCTCTGAGG 2280
Db 2891 CTATGCTCTCAGATAGTGGGACAGTCTTTTGTGTCACAGTGTGCTCTGCTCTGAGG 2950
Qy 2281 CCTCATTTGCTGGTGGTGTGCTCTGCTGGGAAAGCTTTGCGGGGCTTCTGCTGGTAAAC 2340
Db 2951 CCTCATTTGCTGGTGGTGTGCTCTGCTGGGAAAGCTTTGCGGGGCTTCTGCTGGTAAAC 3010
Qy 2341 CACAGAGAGAGAGGAGTCTTTGGGTGGCTCTCTGACAGCTCCCGCTCTGCTGGTAAAC 2400
Db 3011 CACAGAGAGAGAGGAGTCTTTGGGTGGCTCTCTGACAGCTCCCGCTCTGCTGGTAAAC 3070
Qy 2401 GCACGGTTACTGTCTCTAAAGTTCATGTAATTAAGATGATTTCTTTCTAAAGATGA 2460
Db 3071 GCACGGTTACTGTCTCTAAAGTTCATGTAATTAAGATGATTTCTTTCTAAAGATGA 3130
Qy 2461 ACCTCCACACTTCTCCAGATGGGTGACTCTTTCTAAAGTGGTGGAGTATCTGTC 2520
Db 3131 ACCTCCACACTTCTCCAGATGGGTGACTCTTTCTAAAGTGGTGGAGTATCTGTC 3190
Qy 2521 GGGGTGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGGCTCTGGGAGGTGGGCGT 2580
Db 3191 GGGGTGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGGCTCTGGGAGGTGGGCGT 3250
Qy 2581 TGAGCTCAAGATTTGCTCTAGTCCATGTTTTTGTGACCTGAAATTAAGCATATTTTGCAC 2640
Db 3251 TGAGCTCAAGATTTGCTCTAGTCCATGTTTTTGTGACCTGAAATTAAGCATATTTTGCAC 3310
Qy 2641 TGTACTGTACCATAGTGGGACGAGAGTCTGTGATGCGGATCTGTGCTGGGTAGAA 2700
Db 3311 TGTACTGTACCATAGTGGGACGAGAGTCTGTGATGCGGATCTGTGCTGGGTAGAA 3370
Qy 2701 TGCAAAATAAACTCACATTTGTAAAGAAAAA 2738
Db 3371 TGCAAAATAAACTCACATTTGTAAAGAAAAA 3408

RESULT 2
CD512690
LOCUS
DEFINITION AGENCOURT 14360615 NIH MGC 186 Homo sapiens cDNA clone
IMAGE:30406456 5', mRNA sequence.
ACCESSION CD512690
VERSION CD512690.1 GI:31444408
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 747)
NIH-MGC http://mgs.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cdapbs-r@mail.nih.gov
Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palkovits
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: NDCM195 row: d column: 17
High quality sequence stop: 509.
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FEATURES  
source

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Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:30406456"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NIH MGC 186"
(note="Organ: Pooled-Skin; Vector: pDNR-LIB; Site 1: Sfil
(ggcatatggcc); Site 2: Sfil (ggcgccctggcc); Library is
oligo-dT primed and directionally cloned. cDNA was
prepared from a pooled samples of tissues from skin,
meninges, duramater, pia matter and choroid plexus.
5' and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGGCATTAAGCC-3' and 3' adaptor
sequence: 5'-ATTCTAGAGCGGAGCGCGACATG-dT(30)AN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.47 kb (range 0.50-4.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA). Note: this is a NIH_MGC
Library")
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## ORIGIN

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Query Match 25.1%; Score 692; DB 6; Length 747;
Best Local Similarity 98.5%; Pred. No. 8.3e-171;
Matches 709; Conservative 0; Mismatches 10; Indels 1; Gaps 1;
Qy 1842 GAGGATGACACGCTCAATGGAAGAGTCCACGGAGATGGGTCGAGGTCGGGCTGT 1901
Db 1 GGGGATGACACGCTCAATGGAAGAGTCCACGGAGATGGGTCGAGGTCGGGCTGT 60
Qy 1902 GGCCATCCAGCCCCCTGTGGCTTGTCCAGCCTCTGTGCACCCCCTGTCTTCACTCCAG 1961
Db 61 GGCCATCCAGCCCCCTGTGGCTTGTCCAGCCTCTGTGCACCCCCTGTCTTCACTCCAG 120
Qy 1962 GGGCAGACAGCAGCAGCTGCTTCTTCTGCGAGTAAACAGTAGTAGTAGAGCTGG 2021
Db 121 GGGCAGACAGCAGCAGCTGCTTCTTCTGCGAGTAAACAGTAGTAGTAGAGCTGG 180
Qy 2022 GGCTAACAGGCTAGGCTTGTGCTGGGCACTTTCGTGAGCTTCTCACTCGATCCCT 2081
Db 181 GGCTAACAGGCTAGGCTTGTGCTGGGCACTTTCGTGAGCTTCTCACTCGATCCCT 240
Qy 2082 AAAGCAATGGGAGAGCCCCCACTAGCCAGTTTTCAGGAAGTCAACTGGGAGTTAGATG 2141
Db 241 AAAGCAATGGGAGAGCCCCCACTAGCCAGTTTTCAGGAAGTCAACTGGGAGTTAGATG 300
Qy 2142 GGGGCCAGGCTCCACAGCTACTGATGGCCGAGCCAGGTTGAGCTTCTGCTGTCCAGT 2201
Db 301 GGGGCCAGGCTCCACAGCTACTGATGGCCGAGCCAGGTTGAGCTTCTGCTGTCCAGT 360
Qy 2202 CCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTCCAG 2261
Db 361 CCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCTTTTGTCCAG 420
Qy 2262 TCGTGGCTCTGCTGAGGCTCATGCTGGTGGGTGCTCTGCTGGGAAAGCTTG 2321
Db 421 TCGTGGCTCTGCTGAGGCTCATGCTGGTGGGTGCTCTGCTGGGAAAGCTTG 480
Qy 2322 CCGGGCTTGTCTTGGTTAACACAGAGAGAGGGGACTGTTTGGGGTGCCTCTCTGCAGC 2381
Db 481 CCGGGCTTGTCTTGGTTAACACAGAGAGAGGGGACTGTTTGGGGTGCCTCTCTGCAGC 540
Qy 2382 CTCCTGGTCTGGGTGGAGACAGCGTTACTGTCTCTAATGTTCAATGTTAAATG 2441
Db 541 CTCCTGGTCTGGGTGGAGACAGCGTTACTGTCTCTAATGTTCAATGTTAAATG 600
Qy 2442 ATTTCCTTTCTAAGATGTAACCTCCACAGCTTCTCCAGATGGGTGACTCTTTTCTAAA 2501
Db 601 ATTTCCTTTCTAAGATGTAACCTCCACAGCTTCTCCAGATGGGTGACTCTTTTCTAAA 660
Qy 2502 GGTGTGGAGTATCTGTGGGGTGGTGG-CCCTTGGATGGGTGAGTGGTGGTGGTGGAGA 2560
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Db      661 GGGGTGGAGATCTGCGGGTGGTGGCCCTTGGATGGATTCAAGTGGGGTGA 720
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UI-CF-FNO-age-m-22-0-UI.s1 UI-CF-FNO Homo sapiens cDNA clone
UI-CF-FNO-age-m-22-0-UI 3', mRNA sequence.
CB242367
VERSION      CB242367.1      GI:28364011
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 766)
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
7044477
889548
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.reagen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES             Location/Qualifiers
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                     /mol_type="mRNA"
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                     /tissue type="Human Lung Epithelial cells"
                     /lab host="DH10B (Life Technologies) (T1 phage resistant)"
                     /clone lib="UI-CF-FNO"
                     /note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
                     modified polylinker; Site 1: EcoR I; Site 2: Not I;
                     UI-CF-FNO is a subtracted cDNA library derived from two
                     normalized Human lung epithelial cell libraries (EN1 and
                     DU1) The library was subtracted according to according to
                     Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                     1996. For additional information, contact:
                     bento-soares@uiowa.edu
                     TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
                     6hr to LPS 24h
                     TAG LIB=UI-CF-FNO
                     TAG_SEQ=CTGCTCAGGT"

ORIGIN
Query Match      24.7%; Score 680.4; DB 6; Length 766;
Best Local Similarity      97.6%; Pred. No. 9.6e-168;
Matches 723; Conservative      0; Mismatches 12; Indels 6; Gaps 3;

Qy      1999 GTAACAGTAGATAGCAGCTGGGGCTAACAGCGCTAGCGTTGTGTTCTCGCATTTGGT 2058
Db      736 GTAACAGTAGATAGCAGCTGGGGCTAACAGCGCTAGCGTTGTGTTCTCGCATTTGT 682
Qy      2059 CAGCTTCTCAGTCTCTCCCTAACAGCAATGGGGAGCCGCCACTAGCCAGCCAGTTTTCAG 2118
Db      681 CAGCTTCTCAGTCTCTCCCTAACAGCAATGGGGAGCCGCCACTAGCCAGCCAGTTTTCAG 623

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Qy      2119 GAAGTCAACTGGAGGTTAGATGGGGCCAGGGTCCACAGCTACTGATGATGCCCGAGCCA 2178
Db      622 GAAGTCAACTGGAGGTTAGATGGGGCCAGGGTCCACAGCTACTGATGATGCCCGAGCCA 563
Qy      2179 GATTGAGCTTCTTGTGTGTCAGTCCCGATCCCACTTCGAGATCTCATGCTCTCAGATAGG 2238
Db      562 GATTGAGCTTCTTGTGTGTCAGTCCCGATCCCACTTCGAGATCTCATGCTCTCAGATAGG 503
Qy      2239 TGGGACAAGTTCTTTTGTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2298
Db      502 TGGGACAAGTTCTTTTGTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 443
Qy      2299 GTGCTCTGCTGCGGAAAGCTTTTGGCGGCTTGTGCTTGGTTAAACACAGAGAAGAGGGGAC 2358
Db      442 GTGCTCTGCTGCGGAAAGCTTTTGGCGGCTTGTGCTTGGTTAAACACAGAGAAGAGGGGAC 383
Qy      2359 TGTGTTGGGGTGGCTCTCTGCGAGCTCCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2418
Db      382 TGTGTTGGGGTGGCTCTCTGCGAGCTCCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 323
Qy      2419 CTAATGTTCACTGATTTTAAATGATTTCTTCTTAAAGATGTAACCTCCACACCTTTCTCC 2478
Db      322 CTAATGTTCACTGATTTTAAATGATTTCTTCTTAAAGATGTAACCTCCACACCTTTCTCC 263
Qy      2479 AGATTGGGTGACTCTTTTCTAAAGTGTGGAGTATCTGCGGGTGTGCTGCGGCTTGTG 2538
Db      262 AGATTGGGTGACTCTTTTCTAAAGTGTGGAGTATCTGCGGGTGTGCTGCGGCTTGTG 203
Qy      2539 GATGGGTGAGTGGGTGTGAGAGGTCCTGGGAGTGGGCGTGGAGTCAAGTTGCTCT 2598
Db      202 GATGGGTGAGTGGGTGTGAGAGGTCCTGGGAGTGGGCGTGGAGTCAAGTTGCTCT 143
Qy      2599 ACTGCCATGTTTTTGTACCTGAATAAAGCATATTTTGCACCTTGTACTGTACCATAGTG 2658
Db      142 ACTGCCATGTTTTTGTACCTGAATAAAGCATATTTTGCACCTTGTACTGTACCATAGTG 83
Qy      2659 CGGACGAGAGTCTGTATGTGGATCTGCTGCTGGTGTAGTCAATCAATAAATCAAT 2718
Db      82 CGGACGAGAGTCTGTATGTGGATCTGCTGCTGGTGTAGTCAATCAATAAATCAAT 23
Qy      2719 TTCTAAGAAAAA 2739
Db      22 TTCTAAGAAAAA 2

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RESULT 4
BU684754/c
LOCUS
DEFINITION
UI-CF-EN1-acv-d-09-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
UI-CF-EN1-acv-d-09-0-UI 3', mRNA sequence.
BU684754
ACCESSION
BU684754.1      GI:23538028
VERSION
BU684754.1
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 685)
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
9704477
889548
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa

```

cDNA Library preparation: Dr. M. Bento Soares, University of Iowa  
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa  
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa  
 Clone Distribution: Researchers may obtain clones from Research  
 Genetics (www.resgen.com) or from Open Biosystems  
 (www.openbiosystems.com).  
 Seq primer: M13 FORWARD  
 POLYA=Yes.

# FEATURES

Location/Qualifiers  
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 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clones="UI-CF-EN1-acv-d-09-0-UI"  
 /tissue\_type="Primary Lung Cystic Fibrosis Epithelial Cells"  
 /dev\_stage="Adult"  
 /lab\_host="DH10B (Life Technologies) (T1 phage resistant)"  
 /clone\_lib="UI-CF-EN1"  
 /note="Organ: Lung; Vector: p7T3-Pac (Pharmacia) with a modified polylinker; Site 1: EcoR I; Site 2: Not I; UI-CF-EN1 is a normalized cDNA library containing the following tissue(s): Primary Lung Cystic Fibrosis Epithelial Cells. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into p7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site, and the (dT)18 tail. The sequence tag for this library is CTGCTCAGGT.  
 TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS 6hr to LPS 24h  
 TAG LIB=UI-CF-EN1  
 TAG\_SEQ=CTGCTCAGGT"

## ORIGIN

Query Match 23.8%; Score 655; DB 5; Length 685;  
 Best Local Similarity 98.5%; Pred. No. 4.7e-161;  
 Matches 669; Conservative 0; Mismatches 1; Indels 1; Gaps 1;  
 345 AGGACAGGGCTTCAGGGCAGTAGGCGGTGTGTCAGGACCCAGGACCTTCCTGGGACC 404  
 685 AGGACAGGGCTTCAGGGCAGTAGGCGGTGTGTCAGGACCCAGGACCTTCCTGGGACC 626  
 405 TGCCACAGGGCACCCTCAGAGCTCTGAAACCCCACTTAGCTTCCAGACCTTTCTGCAA 464  
 625 TGCCACAGGGCACCCTCAGAGCTCTGAAACCCCACTTAGCTTCCAGACCTTTCTGCAA 566  
 465 AAGCTCTCTGGGTTTCCTCCCTCCCACTATGCTGCTCAGCTAACAGATCTGAGG 524  
 565 AAGCTCTCTGGGTTTCCTCCCTCCCACTATGCTGCTCAGCTAACAGATCTGAGG 506  
 525 GCAACTGTGTAGTGCCAGGGCTGCACCTGCCATCCCGGCTCTGCCACTTTAGGG 584  
 505 GCAACTGTGTAGTGCCAGGGCTGCACCTGCCATCCCGGCTCTGCCACTTTAGGG 446  
 585 CTTCTAGAGGAGTGCTTTAGAGATAGCTCTGAGCATGGTTTCTGCTCCTGTC 644  
 445 CTTCTAGAGGAGTGCTTTAGAGATAGCTCTGAGCATGGTTTCTGCTCCTGTC 386  
 645 AGGCAGCTGATGGATAGGTGGGAGGACGGTCACTGCTTCGGGCCACAGCTGGCCAG 704  
 385 AGGCAGCTGATGGATAGGTGGGAGGACGGTCACTGCTTCGGGCCACAGCTGGCCAG 326  
 705 CTGCGCATGGGAAACCAACCATGTCTCCCGCAGGAGGCGCCAGAGTGGAACTCTCC 764  
 325 CTGCGCATGGGAAACCAACCATGTCTCCCGCAGGAGGCGCCAGAGTGGAACTCTCC 266  
 765 TCATGCCCTTCTGCTAGGAGCCCTGAGGTGGGACGACGAGGGCCAGGAGTTTCAG 824

Db 265 TCATGCCCTTCTGCTAGGAGCCCTGAGGTGGGAGGCGCCAGGAGGAGTTTCAG 206  
 Qy 825 GCCTTCATCAAGAGAAACAATCTCTAGCTCCGACCCCTCATCTGTATCAGCACTTA 884  
 Db 205 GCCTTCATCAAGAGAAACAATCTCTAGCTCCGACCCCTCATCTGTATCAGCACTTA 146  
 Qy 885 CCGGTGTGACTGCCCTTGTGCTAGCTAGCATACGGTGGGCGCCACCTGGCCCACTGGCTGT 944  
 Db 145 CCGGTGTGACTGCCCTTGTGCTAGCTAGCATACGGTGGGCGCCACCTGGCCCACTGGCTGT 86  
 Qy 945 TTATGCCACTGATTATGATAGGGAATATTCTTTGAACCCAA-TGAAGTGTTTTCTCC 1003  
 Db 85 TTATGCCACTGATTATGATAGGGAATATTCTTTGAACCCAAAGTGAAGTGTTTTCTCC 26  
 Qy 1004 CCCATCACAAAAA 1022  
 Db 25 CCCATCACAAAAA 7  
 RESULT 5  
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 LOCUS  
 DEFINITION BQ953674 642 bp mRNA linear EST 21-AUG-2002  
 AGENCOURT 8803100 Lupski sciatic\_nerve Homo sapiens cDNA clone  
 IMAGE:6198871 5', mRNA sequence.  
 ACCESSION BQ953674  
 VERSION BQ953674.1 GI:22369152  
 KEYWORDS EST.  
 ORGANISM Homo sapiens (human)  
 Eukaryota  
 Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 642)  
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgabbs-r@mail.nih.gov  
 Tissue Procurement: Dr. James R. Lupski  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Agencourt Bioscience Corporation  
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: LLAM13611 row: d column: 08  
 High quality sequence stop: 600.  
 Location/Qualifiers  
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 /sex="male"  
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 /dev\_stage="adult, 70 yr"  
 /lab\_host="Lupski sciatic nerve"  
 /clone\_lib="Lupski sciatic nerve"  
 /note="Vector: pCMV-SPORT6 (Life Technologies); Site 1: NotI; Site 2: SalI; cDNA made by oligo-dT priming. Directionally cloned using the following adaptors: 5'-TCGACCCAGCTCCG-3' and 5'-GACTAGTTCAGTCGAGCGGCGCCCT(15)-3'. Size selected > 1 kb for average insert length 1.87 kb. This is a primary library, non-amplified. Library constructed by Life Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor College of Medicine) and is available through Life Technologies."

## ORIGIN

Query Match 23.2%; Score 640; DB 5; Length 642;  
 Best Local Similarity 100.0%; Pred. No. 4.2e-157;  
 Matches 640; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2100	CCACTAGCCCAAGTTTTCAGGAAGTCAACTGGAGAGTTAGATGGGGCCAGGGTCCACAG	2159
1	CCACTAGCCCAAGTTTTCAGGAAGTCAACTGGAGAGTTAGATGGGGCCAGGGTCCACAG	60
2160	CTACTGATGGCCCGAGCCAGGTCCTCTGGTGTCCAGTCCGGATCCACTTCGAGA	2219
61	CTACTGATGGCCCGAGCCAGGTCCTCTGGTGTCCAGTCCGGATCCACTTCGAGA	120
2220	TCTCATGCTCTCAGATAGGTGGGCAAGTCTTTTGTTCACAGTGTGGTCTCTCTGAG	2279
121	TCTCATGCTCTCAGATAGGTGGGCAAGTCTTTTGTTCACAGTGTGGTCTCTCTGAG	180
2280	GCCTCATGTGGTGGTGTGCTCTGCTCGGAAAGCTTTGCGGCGCTGCTTGGTTAA	2339
181	GCCTCATGTGGTGGTGTGCTCTGCTCGGAAAGCTTTGCGGCGCTGCTTGGTTAA	240
2340	CCACAGAAAGAGAGGGGACTGTTTGGGTGCCCTCTCTGCAGCCCTCCCGTCTGGTGA	2399
241	CCACAGAAAGAGAGGGGACTGTTTGGGTGCCCTCTCTGCAGCCCTCCCGTCTGGTGA	300
2400	AGCAGGTTACTGTGTTCTCTAATGTTCACTGATTTAAATGATTTCTTTTAAAGATGT	2459
301	AGCAGGTTACTGTGTTCTCTAATGTTCACTGATTTAAATGATTTCTTTTAAAGATGT	360
2460	AACCTCCACACCTTTCTCCAGATGGGTGACTCTTTTCTAAAGTGTGGAGTATCTGT	2519
361	AACCTCCACACCTTTCTCCAGATGGGTGACTCTTTTCTAAAGTGTGGAGTATCTGT	420
2520	CGGGTGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGTCTCTGGGGAGTGGCG	2579
421	CGGGTGTGTGGCCCTTGGATGGGTGAGTGGGTGAGAGTCTCTGGGGAGTGGCG	480
2580	TTGAGTCAAGTTGCTCTACTGCTACTGCTTTTGTACTCAAAATAAGCATATTTTGCAC	2639
481	TTGAGTCAAGTTGCTCTACTGCTTTTGTACTCAAAATAAGCATATTTTGCAC	540
2640	TTGTTACTTACCATAGTGGCGAGAACTCTGATGTGGGATCTGTCTGGTTAGA	2699
541	TTGTTACTTACCATAGTGGCGAGAACTCTGATGTGGGATCTGTCTGGTTAGA	600
2700	ATCGAATAAACTCACATTTGTAAGCAAAAAAAAAAAAA	2739
601	ATCGAATAAACTCACATTTGTAAGCAAAAAAAAAAAAA	640
RESULT 6		
BI518071/c		
LOCUS	603041774T1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5162851 3'	
DEFINITION	mRNA sequence.	
ACCESSION	BI518071	
VERSION	BI518071.1	
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
TITLE	NIH-MGC http://mgs.nci.nih.gov/.	
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)	
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgabbs-remail.nih.gov Tissue procurement: Life Technologies, Inc. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov Plate: LHAM11404 row: d column: 20 High quality sequence start: 10 High quality sequence stop: 759.	

QY	2589	AAAGTGTCTTCTAGCCATGTTTGTACCTGAAATAAGCATATTTTGCACTTGTACTG	2648
Db	71	AAAGTGTCTTCTAGCCATGTTTGTAGCTGAAATAAGCATATTTTGCACTTGTACTG	12
QY	2649	TAC 2651	
Db	11	TAC 9	
RESULT 7			
LOCUS	BQ045123/c	640 bp	linear
DEFINITION	UI-CF-EN1-ael-i-10-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone		
ACCESSION	BQ045123		
VERSION	BQ045123.1	GI:19796176	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	1 (bases 1 to 640)		
TITLE	Normalization and subtraction: two approaches to facilitate gene discovery		
JOURNAL	Genome Res. 6 (9), 791-806 (1996)		
MEDLINE	97044477		
PUBMED	8889548		
COMMENT	Contact: McCray, PB University of Iowa 2024 University of Iowa Med Labs, Iowa City, IA 52242, USA Tel: 319 356 4866 Fax: 319 356 7171 Email: paul-mccray@uiowa.edu Tissue Procurement: Dr. M. J. Welsh, University of Iowa cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com) or from Open Biosystems (www.openbiosystems.com). Seq primer: M13 FORWARD POLYA=Yes.		
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source	1..640		
	/organism="Homo sapiens"		
	/mol_type="mRNA"		
	/db_xref="taxon:9606"		
	/clone="UI-CF-EN1-ael-i-10-0-UI"		
	/tissue_type="Primary Lung Cystic Fibrosis Epithelial Cells"		
	/dev_stage="Adult"		
	/lab_host="DH10B (Life Technologies) (T1 phage resistant)"		
	/clone_lib="UI-CF-EN1"		
	/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I; UI-CF-EN1 is a normalized cDNA library containing the following tissue(s): Primary Lung Cystic Fibrosis Epithelial Cells. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT7T3-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is CTGCTCAGGT. TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS 6hr to LPS 24h TAG LIB=UI-CF-EN1 TAG_SEQ=CTGCTCAGGT"		

ORIGIN			
QY	2103	CTAGCCGAGTTTTCAGG--AAGTCACACTGGGAGGTAGATGGGGCCAGGTCACACAGC	2160
Db	640	CTAGCCGAGTTTTCAGGAGTCAACNTGGGAGGTAGATGGGGCCAGGTCACACAGC	581
QY	2161	TACTGATGCGCCGACGACAGGTTGAGCTTCCTGGTGTCCAGTCCGATCCCACTTGCAGAT	2220
Db	580	TACTGATGCGCCGACGACAGGTTGAGCTTCCTGGTGTCCAGTCCGATCCCACTTGCAGAT	521
QY	2221	CTCATGCTCTCAGATAGTGGGACAAGTCTTTTGTCTACAGTGTGGTCTCTCTGAGG	2280
Db	520	CTCATGCTCTCAGATAGTGGGACAAGTCTTTTGTCTACAGTGTGGTCTCTCTGAGG	461
QY	2281	CCTCATTTGCTGGTGGTGTCTCTGCTGGGAAAAGCTTTTGGGGGCTTGTGTTAATC	2340
Db	460	CCTCATTTGCTGGTGGTGTCTCTGCTGGGAAAAGCTTTTGGGGGCTTGTGTTAATC	401
QY	2341	CACAGAAGAGAAGGAGGACTGTTTGGGGTGCCTCTCTGAGGCTCCCTGCTGGGTGAA	2400
Db	400	CACAGAAGAGAAGGAGGACTGTTTGGGGTGCCTCTCTGAGGCTCCCTGCTGGGTGAA	341
QY	2401	GCACGGTTACTGTGTTCTCTAATGTTCAATGTTTAAATGATTTCTTTCTAAAGATGA	2460
Db	340	GCACGGTTACTGTGTTCTCTAATGTTCAATGTTTAAATGATTTCTTTCTAAAGATGA	281
QY	2461	ACCTCCACACCTTTCTCCAGATGGGTGACTTTTCTAAAGGTGGTGGGAGTATCTGTC	2520
Db	280	ACCTCCACACCTTTCTCCAGATGGGTGACTTTTCTAAAGGTGGTGGGAGTATCTGTC	221
QY	2521	GGGGTGGTGGCCCTTGGATGGGTGAGTGGGTGAGAGTCTCTGGGAGGTGGCGCT	2580
Db	220	GGGGTGGTGGCCCTTGGATGGGTGAGTGGGTGAGAGTCTCTGGGAGGTGGCGCT	161
QY	2581	TGAGTCTCAAGTTGCTTACTCTCCATGTTTGTACCTGAAATAAGCATATTTTGCAC	2640
Db	160	TGAGTCTCAAGTTGCTTACTCTCCATGTTTGTACCTGAAATAAGCATATTTTGCAC	101
QY	2641	TGTTACTGTACCATAGTGGGACGAGAGTCTGTATGTGGGATCTGTCTGGGTTAGAA	2700
Db	100	TGTTACTGTACCATAGTGGGACGAGAGTCTGTATGTGGGATCTGTCTGGGTTAGAA	41
QY	2701	TGCAATAAACTACATTTGTAAGAAAAA	2739
Db	40	TGCAATAAACTACATTTGTAAGAAAAA	2
RESULT 8			
LOCUS	CB305549/c	625 bp	mRNA
DEFINITION	UI-CF-EN1-aed-n-21-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone		
ACCESSION	CB305549		
VERSION	CB305549.1	GI:28846060	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	1 (bases 1 to 625)		
TITLE	Normalization and subtraction: two approaches to facilitate gene discovery		
JOURNAL	Genome Res. 6 (9), 791-806 (1996)		
MEDLINE	97044477		
PUBMED	8889548		
COMMENT	Contact: McCray, PB University of Iowa		

2024 University of Iowa Med Labs, Iowa City, IA 52242, USA

Tel: 319 356 4866

Fax: 319 356 7171

Email: paul-mccray@uiowa.edu

Tissue Procurement: Dr. M. J. Welsh, University of Iowa

cDNA Library preparation: Dr. M. Bento Soares, University of Iowa

cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

Clone Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Researchers may obtain clones from Research

Genetics (www.regen.com) or from Open Biosystems

(www.openbiosystems.com).

Seq primer: M13 FORWARD

POLVA=Yes

location/Qualifiers

1..625

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="UI-CF-EN1-aed-n-21-0-UI"

/tissue\_type="Primary Lung Cystic Fibrosis Epithelial

Cells"

/dev\_stage="Adult"

/lab\_host="DH10B (Life Technologies) (T1 phage resistant)"

/clone\_lib="UI-CF-EN1"

/note="Organ: Lung; Vector: pVT73-Pac (Pharmacia) with a

modified polylinker; Site 1: Ecor I; Site 2: Not I;

UI-CF-EN1 is a normalized cDNA library containing the

following tissue(s): Primary Lung Cystic Fibrosis

Epithelial Cells. The library was constructed according to

Bonaldi, Lennon and Soares, Genome Research, 6:791-806,

1996. First strand cDNA synthesis was primed with an

oligo-dT primer containing a Not I site. Double stranded

cDNA was ligated to an Ecor I adaptor, digested with Not

I, and cloned directionally into pVT73-Pac vector. The

oligonucleotide used to prime the synthesis of

first-strand cDNA contains a library tag sequence that is

located between the Not I site and the (dT)18 tail. The

sequence tag for this library is CTGCTCAGGT.

TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS

6hr to LPS 24h

TAG LIB=UI-CF-EN1

TAG\_SEQ=CTGCTCAGGT"

ORIGIN

Query Match 22.1%; Score 608; DB 6; Length 625;

Best Local Similarity 99.8%; Pred. No. 1.1e-148;

Matches 619; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

404 CTGCCAGGGGACCTGAGAGCTCTCTGAACCCCACTTAGCTTCAGACCTTTCTGCA 463

625 CTGCCAGGGGACCTGAGAGCTCTCTGAACCCCACTTAGCTTCAGACCTTTCTGCA 566

464 AAAGTCTCTCTGCTTCTCTCCCTCCCAATCTATGGGTTCACAGTAACAGATCTGAG 523

565 AAAGTCTCTCTGCTTCTCTCCCTCCCAATCTATGGGTTCACAGTAACAGATCTGAG 506

524 GGCAACTGCTGCTAGTGGCCAGGCTGCACCTGCCATCCCGGCTCTGCCACTTTAGG 593

505 GGCAACTGCTGCTAGTGGCCAGGCTGCACCTGCCATCCCGGCTCTGCCACTTTAGG 446

584 GCCTTCTAGAGGCGAGTGTCTTAGAGTAGTCTCTGAGGAGTGGTTCCTGCTCCTGTG 643

445 GCCTTCTAGAGGCGAGTGTCTTAGAGTAGTCTCTGAGGAGTGGTTCCTGCTCCTGTG 386

644 CAGGGCAGCTGATGGGATAAGTGGGAAGACGGTTCAGTCTTTGGGCCCCCACTGGCCA 703

385 CAGGGCAGCTGATGGGATAAGTGGGAAGACGGTTCAGTCTTTGGGCCCCCACTGGCCA 326

704 GCCTGGCGATGGGAACCAACCATCTCCCAAGGAGGAGGAGGAGGAGGAGGAGGAGG 763

325 GCCTGGCGATGGGAACCAACCATCTCCCAAGGAGGAGGAGGAGGAGGAGGAGGAGG 266

764 CTCATGCCCTTCGTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 823

Db 265 CTCATGCCCTTCGTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 206

QY 824 GGCTTTCATCAAGAGAACACATCTCTAGCTCCGACCCCTCATCTCTGTATCAGCACTT 883

Db 205 GGCTTTCATCAAGAGAACACATCTCTAGCTCCGACCCCTCATCTCTGTATCAGCACTT 146

QY 884 ACC-GGTGTGTGACGTCCCTTGTCTAGCTAGCATAGCTGGGGCCCACTGGCCACTGGCT 942

Db 145 ACNCGTGTGTGACTGCCCTTGTCTAGCTAGCATAGCTGGGGCCCACTGGCCACTGGCT 86

QY 943 GTTTATGCCACTGATTATGATAGGGAATATTATCTTTGAACCCCAATGAAGTGTTCCTC 1002

Db 85 GTTTATGCCACTGATTATGATAGGGAATATTATCTTTGAACCCCAATGAAGTGTTCCTC 26

QY 1003 CCCCATCACAAAAAAA 1022

Db 25 CCCCATCACAAAAAAA 6

# RESULT 9

CD723979

LOCUS

DEFINITION

CD723979

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

COMMENT

JOURNAL

CONTACT

SECTION

ADDRESS

TELEPHONE

FAX

EMAIL

PLATE

SEQ PRIMER

LOCATION/Qualifiers

1..611

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="oj28g08"

/tissue\_type="lacrimal gland"

/dev\_stage="Adult"

/lab\_host="EMDH10B"

/clone\_lib="Human lacrimal gland, unamplified: oj"

/note="Organ: Eye; Vector: pCMVSPORT6; RNA was extracted

from 2 human lacrimal glands. A directionally cloned cDNA

library in the pCMVSPORT6 vector (Life Technologies) was

constructed at Bioserve Biotechnology (Laurel MD)

essentially following the protocols of the SuperScript

plasmid system full details of which are contained in the

manufacturer's instruction manual

(http://www.lifetech.com/). First strand synthesis was

carried out using a Not I primer-adaptor

[5'-pGACTATTCTAGATCCGAGCGCCGCC(T)15-3']. EST analysis

was performed on the unamplified library at the NIH

Intramural Sequencing Center (NISC)."

ORIGIN

Query Match 21.9%; Score 604.2; DB 6; Length 611;

Best Local Similarity 99.5%; Pred. No. 1.1e-147;

Matches 606; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	167	GCACTGGCGATGTCCCGCAGAGGCGCAAGGTCTCTAGAGCGGGTCTCCACATGACTG	226
Db	2	GCACTGGCGAGGCCCCCAGCAGGCGCAAGGTCTCTAGAGCGGGTCTCCACATGACTG	61
QY	227	GCTTCACACAGGACATTCCTCCCTGGGTGTCATGCTCTGTCTATCTACCGGTCCAGGT	286
Db	62	GCTTCACACAGGACATTCCTCCCTGGGTGTCATGCTCTGTCTATCTACCGGTCCAGGT	121
QY	287	TGCAGGTAGGAATGTTTGTACCTCTCTGTATGGCCACCTCTCTCCATCGCCCTTAG	346
Db	122	TGCAGGTAGGAATGTTTGTACCTCTCTGTATGGCCACCTCTCTCCATCGCCCTTAG	181
QY	347	GGACAGGCTGTAGGGCCATGAGGCGCTGGTCAGGCACCCAGGCTCTCTGGGACCTG	406
Db	182	GGACAGGCTGTAGGGCCATGAGGCGCTGGTCAGGCACCCAGGCTCTCTGGGACCTG	241
QY	407	CCACAGGGCCACCTTGAGAGCTCTGTAAACCCCACTTAGCTTCCAGACCTTCTGCAAAA	466
Db	242	CCACAGGGCCACCTTGAGAGCTCTGTAAACCCCACTTAGCTTCCAGACCTTCTGCAAAA	301
QY	467	GCTCCTCTGCTTCTCCCTCCCTCCCAATCTATGGGTACAGCTAACAGATCTGAGGC	526
Db	302	GCTCCTCTGCTTCTCCCTCCCTCCCAATCTATGGGTACAGCTAACAGATCTGAGGC	361
QY	527	AACCTGCTGTAGTGGCCAGGCTGCACTGCATCCCGGCTCTGCCACTTTAGGCC	586
Db	362	AACCTGCTGTAGTGGCCAGGCTGCACTGCATCCCGGCTCTGCCACTTTAGGCC	421
QY	587	TTCTAGAGGAGTGTCTTAGGAAGTAGCTCTGAGGCATGGGTTTCTGCTCTCTGTGCAG	646
Db	422	TTCTAGAGGAGTGTCTTAGGAAGTAGCTCTGAGGCATGGGTTTCTGCTCTCTGTGCAG	481
QY	647	GGCAGCTGTAGGGATAGGTGGGGAAGGAGGCTCAGTGTGGGCCCCAGCTGCCAGCC	706
Db	482	GGCAGCTGTAGGGATAGGTGGGGAAGGAGGCTCAGTGTGGGCCCCAGCTGCCAGCC	541
QY	707	TGGCGATGGGGAACCAACCATGTCCCGCAGCGAAGCGCCAGAGTGGGAACCTGTCCTC	766
Db	542	TGGCGATGGGGAACCAACCATGTCCCGCAGCGAAGCGCCAGAGTGGGAACCTGTCCTC	601
QY	767	ATGCCCTTC 775	
Db	602	ATGCCCTTC 610	
RESULT 10			
AI928242/c			
LOCUS			
DEFINITION			
mRNA sequence.			
AI928242.1			
EST.			
ORGANISM			
Homo sapiens (human)			
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;			
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.			
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),			
Tumor Gene Index			
Unpublished (1997)			
Contact: Robert Strausberg, Ph.D.			
Email: cgapbs-r@mail.nih.gov			
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.			
Emmert-Buck, M.D., Ph.D.			
CDNA Library Preparation: M. Bento Soares, Ph.D.			
DNA Sequencing Arrayed by: Greg Lennon, Ph.D.			
Clone Distribution: NCI-CCAP clone distribution information can be			
found through the I.M.A.G.E. Consortium/LLNL at:			
www-bio.llnl.gov/bbrp/image/image.html			
Insert Length: 721 Std Error: 0.00			
Seq primer: -40UP from Gibco			
High quality sequence stop: 453.			
Location/Qualifiers			
1..577			
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/db_xref="taxon:9606"			
/clone="IMAGE:2463121"			
/lab_host="DH10B"			
/clone_lib="NCI CGAP Kid11"			
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with			
a modified polylinker; Site 1: Not I; Site 2: Eco RI;			
Plasmid DNA from the normalized library NCI CGAP Kid3 was			
prepared, and ss circles were made in vitro. Following HAP			
purification, this DNA was used as tracer in a subreactive			
hybridization reaction. The driver was PCR-amplified cDNAs			
from a pool of 5,000 clones made from the same library			
(cloneIDs 1322376-1323911, 1456007-1456775, and			
1500552-1502855). Subtraction by Bento Soares and M.			
Fatima Bonaldo.			
ORIGIN			
Query Match 20.5%; Score 563.4; DB 1; Length 577;			
Best Local Similarity 99.7%; Pred. No. 6.5e-137;			
Matches 575; Conservative 0; Mismatches 1; Indels 1; Gaps 1;			
QY	2150	GGTCCACAGCTACTGATGGCCCGAGCCAGGTGAGCTTCTGGTGTCCAGTCCCGATCC	2209
Db	577	GGTCCACAGCTACTGATGGCCCGAGCCAGGTGAGCTTCTGGTGTCCAGTCCCGATCC	518
QY	2210	CACTTGCAGATCTCATGTCTCTCAGATAGGTGGGCAAGTCTTTTGTACAGTGTGGCT	2269
Db	517	CACTTGCAGATCTCATGTCTCTCAGATAGGTGGGCAAGTCTTTTGTACAGTGTGGCT	458
QY	2270	CTGTCTGAGGCTCATTTGCTGGCTGGTGTCTGTCTGGGAAAAGCTTTCCGGGGCTT	2329
Db	457	CTGTCTGAGGCTCATTTGCTGGCTGGTGTCTGTCTGGGAAAAGCTTTCCGGGGCTT	398
QY	2330	GCTTGGTTAAACACAGAGAGAGAGGAGCTGTTTGGGGTGCCTCTCTCAGGCTCCCGT	2389
Db	397	GCTTGGTTAAACACAGAGAGAGAGGAGCTGTTTGGGGTGCCTCTCTCAGGCTCCCGT	338
QY	2390	GCTGGGTGAAGCAGCGTTACTGTCTCTAAATTTTCAATTTTCAATTTTAAATGATTTT	2449
Db	337	GCTGGGTGAAGCAGCGTTACTGTCTCTAAATTTTCAATTTTCAATTTTAAATGATTTT	278
QY	2450	CTAAAGATTAACCTCCACACCTTTTCCAGATGGGTGACTCTTTTCTTAA-GGTGGTG	2508
Db	277	CTAAAGATTAACCTCCACACCTTTTCCAGATGGGTGACTCTTTTCTTAAAGGTGGTG	218
QY	2509	GGAGTATCTGTCCGGGTGGTGTGGCCCTTGGATGGGTGAGGTGGTGTGAGAGTCTTGG	2568
Db	217	GGAGTATCTGTCCGGGTGGTGTGGCCCTTGGATGGGTGAGGTGGTGTGAGAGTCTTGG	158
QY	2569	GGAGTGGCGTTGAGCTCAAAAGTTGTCTTACTGCATGTTTTTGTACTGGAATAAAGC	2628
Db	157	GGAGTGGCGTTGAGCTCAAAAGTTGTCTTACTGCATGTTTTTGTACTGGAATAAAGC	98
QY	2629	ATATTTTGACATTTGTTACTGTACCTAGTGGCGAGAGAGTCTGTATGTGGGATCTGTG	2688
Db	97	ATATTTTGACATTTGTTACTGTACCTAGTGGCGAGAGAGTCTGTATGTGGGATCTGTG	38
QY	2689	CTTGGCTTGAATGCAATAAATAAATCAATTTTGTAG 2725	
Db	37	CTTGGCTTGAATGCAATAAATAAATCAATTTTGTAG 1	
RESULT 11			
BM019092			
LOCUS			
DEFINITION			
603647129F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:5428711 5',			
mRNA sequence.			
BM019092			
ACCESSION			







used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is GGGCTAGGC.

TAG TISSUE= Lung Epithelial Cells Tissue nos 359-368

TAG\_LIB=UI-CF-DU1

TAG\_SEQ=GGCTAGGC"

## ORIGIN

Query Match	20.3%;	Score 560.2;	DB 5;	Length 577;
Best Local Similarity	99.5%;	Pred. No. 4.6e-136;		
Matches 562;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;
Qy	971	TATTATCTTTGAACCCCAATGAAGTGTTCCTCCCCCATCAAAAAAAAATCTCTTATT	1030	
Db	9	TTTATCTTTGAACCCCAATGACATGTTTCTCCCCCATCAAAAAAAAATCTCTTATT	68	
Qy	1031	TTTGTAGACATGATTTTACCAAAATATGTACTCAATATGTGATTTTCGATTTTATCA	1090	
Db	69	TTTGTAGACATGATTTTACCAAAATATGTACTCAATATGTGATTTTTCGATTTTATCA	128	
Qy	1091	ATTTAAAAATTTGGAATTTGTTTGCTCTTAAGCCCAACATAATTTGATTTGGCCTCTT	1150	
Db	129	ATTTAAAAATTTGTTGAATTTGTTTGCTCTTAAGCCCAACATAATTTGATTTGGCCTCTT	188	
Qy	1151	GGCTCTCAAAAGCCCAAAATATTTACCGCTAGCCGTTACAGAAAAAGTCTGCTGACTAC	1210	
Db	189	GGCTCTGAAGCCCAAAATATTTACCGCTAGCCGTTACAGAAAAAGTCTGCTGACTAC	248	
Qy	1211	TGAGCCAGACCTTCATACCTCCATCCCTGTTTGGATTTATTAAGAAAGCCTCAGACAGT	1270	
Db	249	TGAGCCAGACCTTCATACCTCCATCCCTGTTTGGATTTATTAAGAAAGCCTCAGACAGT	308	
Qy	1271	AAGGGCTTTTTTAAAGAAATAAATGACTTGGTTTGGCTTGGAAAGCAGGGGAAGCATTC	1330	
Db	309	AAGGGCTTTTTTAAAGAAATAAATGACTTGGTTTGGCTTGGAAAGCAGGGGAAGCATTC	368	
Qy	1331	AGATGAGCGGTTTCTGCAATTAACCTTGCTATACGCATCTCGTGTCTGTGTCGGCTGGC	1390	
Db	369	AGATGAGCGGTTTCTGCAATTAACCTTGCTATACGCATCTCGTGTCTGTGTCGGCTGGC	428	
Qy	1391	GAGCCCCCTTTGGAAGGTTCTGTGTCTTCAGCTGGCTCTTGACAGATCCACCCCGCCTCG	1450	
Db	429	GAGCCCCCTTTGGAAGGTTCTGTGTCTTCAGCTGGCTCTTGACAGATCCACCCCGCCTCG	488	
Qy	1451	TGFTGGAAATGCAGAGCCCTTTGCTTTTCCTTCTTTCGCCCTCGCTTCTGTCTCGGGGAC	1510	
Db	489	TGFTGGAAATGCAGAGCCCTTTGCTTTTCCTTCTTTCGCCCTCGCTTCTGTCTCGGGGAC	548	
Qy	1511	CCGCTGGGCCCTTTGGCTGTCATCCC	1535	
Db	549	CCGCTGGGCCCTTTGGCTGTCATCCC	573	

RESULT 13  
AW271767/c  
LOCUS  
DEFINITION  
    AW271767 547 bp mRNA linear EST 03-JAN-2000  
    x181a11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2769980 3',  
    mRNA sequence.  
VERSION  
    AW271767  
KEYWORDS  
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ORGANISM  
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    Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
    1 (bases 1 to 547)  
AUTHORS  
    NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE  
    National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
    Tumor Gene Index  
JOURNAL  
    Unpublished (1997)  
COMMENT  
    Contact: Robert Strausberg, Ph.D.  
    Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.  
cDNA Library Preparation: M. Bento Soares, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: [www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
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Plasmid DNA from the normalized library NCI CGAP Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(CloneIDs 1322376-132391, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Farima Bonaldo."

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## ORIGIN

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REFERENCE 1 (bases 1 to 535)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITILE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco
High quality sequence stop: 420.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 538)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITILE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
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prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneId: 132376-132391, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo. "
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

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c 16	75	2.7	72678	17	US-10-322-281-214	Sequence 214, App
c 17	70.8	2.6	10410	17	US-10-302-027-4	Sequence 4, Appli
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ALIGNMENTS

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; APPLICANT: Macina, Roberto  
; APPLICANT: Recipon, Hervé  
; APPLICANT: Chen, Sei-Yu  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Prote  
; FILE REFERENCE: DEX-0291  
; CURRENT APPLICATION NUMBER: US/09/989,920  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: 60/252,500  
; PRIOR FILING DATE: 2000-11-22  
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; SOFTWARE: PatentIn version 3.1  
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US-09-989-920-100

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DB	541	TGGCCAGGGCTGCACCTGCCATCCCGCTCTGCGACCTTAGGGCCCTTAGAGGCAAGT	600	DB	1621	TCCTCTGGAGGGGAGGCTGATCTCAGCTCCACCTAGTACCTTGGGAGCTGAGGACCTT	1680
QY	601	TCCTTAGGAAGTAGCTCTGAGGCATGGTCTTCTGCTCTGTGAGGGGCACTGATGGGA	660	QY	1681	TTGGCTTCTCTGAGGCTGCAAGCCCTTTCCATGTGTCAGCTCTCTTCTGCTACAA	1740
DB	601	TCCTTAGGAAGTAGCTCTGAGGCATGGTCTTCTGCTCTGTGAGGGGCACTGATGGGA	660	DB	1681	TTGGCTTCTCTGAGGCTGCAAGCCCTTTCCATGTGTCAGCTCTCTTCTGCTACAA	1740
QY	661	TAGGTGGGAGAGCAGCTGAGTCTTGGCCCGCAGCTGGCCAGCTGGCGATGGGAAA	720	QY	1741	AGGGGACTGCTCACAGTGGCCCTCAGCTTGGTGGTGGAGGGGCGCCCGGCGCTCC	1800
DB	661	TAGGTGGGAGAGCAGCTGAGTCTTGGCCCGCAGCTGGCCAGCTGGCGATGGGAAA	720	DB	1741	AGGGGACTGCTCACAGTGGCCCTCAGCTTGGTGGTGGAGGGGCGCCCGGCGCTCC	1800
QY	721	CCAAACCATGTCCCGCAGAGGCGCAGAGTGGGAACCTGCTCATGCGCTTCGTCT	780	QY	1801	ATAAGGATTCCTGGGCTGAGAAATTCGCATCTGCCATTCGAGATGGAGATGAGAGCTCAA	1860
DB	721	CCAAACCATGTCCCGCAGAGGCGCAGAGTGGGAACCTGCTCATGCGCTTCGTCT	780	DB	1801	ATAAGGATTCCTGGGCTGAGAAATTCGCATCTGCCATTCGAGATGGAGATGAGAGCTCAA	1860
QY	781	GAGGAGCCTGAGGTGGGACAGGGGCGAGGGAGTTTCAGGCTTTCATCAAGAGA	840	QY	1861	TGGAAGAGTCCCAAGGAGATGGGTCCGAGGTCCGAGGTCCGAGGTCCGAGGTCCGAGGT	1920
DB	781	GAGGAGCCTGAGGTGGGACAGGGGCGAGGGAGTTTCAGGCTTTCATCAAGAGA	840	DB	1861	TGGAAGAGTCCCAAGGAGATGGGTCCGAGGTCCGAGGTCCGAGGTCCGAGGTCCGAGGT	1920
QY	841	ACACATCTCAGCTCCGACCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	900	QY	1921	GCTTGTCCAGCCTCTGTGACCCCTGGTGTCTTCACTCCAGGGGAGAGAGGAGCAGCTG	1980
DB	841	ACACATCTCAGCTCCGACCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	900	DB	1921	GCTTGTCCAGCCTCTGTGACCCCTGGTGTCTTCACTCCAGGGGAGAGAGGAGCAGCTG	1980
QY	901	CTTGTCACTAGCATACCGTGGGCGACCTGGCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	960	QY	1981	CAGTTCCTTCTTCTGAGTAACTAGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGT	2040
DB	901	CTTGTCACTAGCATACCGTGGGCGACCTGGCCCTCATCTGTATCAGCACTTACCGGTGTGACTGCC	960	DB	1981	CAGTTCCTTCTTCTGAGTAACTAGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGT	2040
QY	961	TGATAGGAATATTATCTTTGAACCCCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA	1020	QY	2041	GTTTCTTGCGCATTTGGTCAGCTTCTCACTCGATCTTCCCTAAAGCAATGGGAGGCCCC	2100
DB	961	TGATAGGAATATTATCTTTGAACCCCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA	1020	DB	2041	GTTTCTTGCGCATTTGGTCAGCTTCTCACTCGATCTTCCCTAAAGCAATGGGAGGCCCC	2100
QY	1021	AATCTTATTTTATAGTACATATTTTACAAAAATATGACTCAATTTATTTATTTG	1080	QY	2101	CAGTTCCTTCTTCTGAGTAACTAGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGT	2160
DB	1021	AATCTTATTTTATAGTACATATTTTACAAAAATATGACTCAATTTATTTATTTG	1080	DB	2101	CAGTTCCTTCTTCTGAGTAACTAGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGT	2160
QY	1081	GATTTTATCAATTTTAAATTTGTAACCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA	1140	QY	2161	TACTGATGCGCCGAGCAGGTGAGCTTCTGAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGT	2220
DB	1081	GATTTTATCAATTTTAAATTTGTAACCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA	1140	DB	2161	TACTGATGCGCCGAGCAGGTGAGCTTCTGAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGT	2220
QY	1141	TTTGCTCTGCTGAAAGCCAAAAATTTACCGTCTAGCCGCTTACAGAAAAAGTC	1200	QY	2221	CTCATGCTCTCAGATAGGTGGGACAGTTCTTTTGTCCAGTGTGCTGTCTGTCTGTGAGG	2280
DB	1141	TTTGCTCTGCTGAAAGCCAAAAATTTACCGTCTAGCCGCTTACAGAAAAAGTC	1200	DB	2221	CTCATGCTCTCAGATAGGTGGGACAGTTCTTTTGTCCAGTGTGCTGTCTGTCTGTGAGG	2280
				QY	2281	CCTCATGCTGCTGGTGTGCTGTCTGCTGGGAAAAAGCTTTGCGGGCTTGTCTGTGTTAAC	2340

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Db      2281  CCTATTGCTGGCTGGGTGCTCTCTGCTGGGAAAGCTTTGCGGGCTTGCTTGGTTAAC 2340
Qy      2341  CACAGAAGAGAGGGGACTGTTTGGGGTGGCTCTCTGCGAGCCCTCCCGCTGGTGGAA 2400
Db      2341  CACAGAAGAGAGGGGACTGTTTGGGGTGGCTCTCTGCGAGCCCTCCCGCTGGTGGAA 2400
Qy      2401  GCAGGGTACTGCTTCTCTAAAGTTCATGTAATTAATAAGATTTCTTTCTAAAGATGA 2460
Db      2401  GCACGGTACTGCTTCTCTAAAGTTCATGTAATTAATAAGATTTCTTTCTAAAGATGA 2460
Qy      2461  ACCTCCACACTTCTCCAGATGGGTGACTCTTTCTAAAGTGGTGGAGTATCTGTC 2520
Db      2461  ACCTCCACACTTCTCCAGATGGGTGACTCTTTCTAAAGTGGTGGAGTATCTGTC 2520
Qy      2521  GGGTGGTGGGCTTGGATGGGTGAGGTGGGTGAGAGGTCCTGGGGAGTGGGCGT 2580
Db      2521  GGGTGGTGGGCTTGGATGGGTGAGGTGGGTGAGAGGTCCTGGGGAGTGGGCGT 2580
Qy      2581  TGAGCTCAAAAGTGTCTCTACTGCCATGTTTTTGTACCTGAAATAAAGCATATTTTGCAC 2640
Db      2581  TGAGCTCAAAAGTGTCTCTACTGCCATGTTTTTGTACCTGAAATAAAGCATATTTTGCAC 2640
Qy      2641  TGTTACTGTACCATAGTGGGACGAGAGTCTGTATGTGGATCTGTGCTTGGTTAGAA 2700
Db      2641  TGTTACTGTACCATAGTGGGACGAGAGTCTGTATGTGGATCTGTGCTTGGTTAGAA 2700
Qy      2701  TGCAATAAAAGTCAACATTTGTAAAGAAAAAATAAAGATGCGGCC 2754
Db      2701  TGCAATAAAAGTCAACATTTGTAAAGAAAAAATAAAGATGCGGCC 2754

RESULT 2
US-10-074-475-2
; Sequence 2, Application US/10074475
; Publication No. US2003092898A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Hu, Ping
; APPLICANT: Recipon, Herve
; APPLICANT: Karra, Kalpana
; APPLICANT: Cafferkey, Robert
; APPLICANT: Sun, Fengming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific
; FILE REFERENCE: DEX-0313
; CURRENT APPLICATION NUMBER: US/10/074,475
; PRIOR FILING DATE: 2002-02-13
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 295
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 2754
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-074-475-2

Query Match      100.0%; Score 2754; DB 14; Length 2754;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2754; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  GCCAGAACAGGCTCAGCTTGGCAAGGTGGAGATGACTGCTCTTCCCTTCGCAATTGG 60
Db      1  GCCAGAACAGGCTCAGCTTGGCAAGGTGGAGATGACTGCTCTTCCCTTCGCAATTGG 60
Qy      61  GGAAACAGGCTCCCTCGGTAGTCGATGATCCCTTTTGTATCTTGTGTGACCTCCCTGGA 120
Db      61  GGAAACAGGCTCCCTCGGTAGTCGATGATCCCTTTTGTATCTTGTGTGACCTCCCTGGA 120
Qy      121  GAGTGGATGACGCTGGTGGCTTAGCTTTTCTAGACAGTGTAAATGTCATGGGCGATGT 180

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Db      121  GAGTGGATGACGCTGGTGGCTTAGCTTTTCTAGACAGTAAATGTCATCGGCGATGT 180
Qy      181  CCCGAGAGAGGGCAAGGTCTCTAGAGGGGTCTCCACATGACTGGCTTACACAGCA 240
Db      181  CCCGAGAGAGGGCAAGGTCTCTAGAGGGGTCTCCACATGACTGGCTTACACAGCA 240
Qy      241  CTTCCGCTCGGGTTCGATGCTCTGTGTCTATCTTACCGGTCCAGGGTTCCAGTATGAAAT 300
Db      241  CTTCCGCTCGGGTTCGATGCTCTGTGTCTATCTTACCGGTCCAGGGTTCCAGTATGAAAT 300
Qy      301  GTTGTACCTCTTCTGATTTGCCACCTCTCTCCATCGCCCTTAGGGACAGGGCTTAG 360
Db      301  GTTGTACCTCTTCTGATTTGCCACCTCTCTCCATCGCCCTTAGGGACAGGGCTTAG 360
Qy      361  GGCACAGTGGGGCTGGTCCAGGACCCAGGCTCTCTTGGGACCTGCGCCAGGGGACACCT 420
Db      361  GGCACAGTGGGGCTGGTCCAGGACCCAGGCTCTCTTGGGACCTGCGCCAGGGGACACCT 420
Qy      421  GAGAGCTCTGTAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAGCTCTCTCTGGCTT 480
Db      421  GAGAGCTCTGTAACCCCACTTAGCTTCCAGACCTTTCTGCAAAAGCTCTCTCTGGCTT 480
Qy      481  TCCTCCCTCCCACTTAGCTTCCAGACCTTAGCTTCCAGACCTTAGCTTCCAGACCT 540
Db      481  TCCTCCCTCCCACTTAGCTTCCAGACCTTAGCTTCCAGACCTTAGCTTCCAGACCT 540
Qy      541  TGGCAGGCTGACCTGCACTCCCGCTCTGCACTTTAGGGCTTTCTAGAGCAGTG 600
Db      541  TGGCAGGCTGCACTGCACTCCCGCTCTGCACTTTAGGGCTTTCTAGAGCAGTG 600
Qy      601  TCTTAGGAGTACTCTGAGCATGGGTCTCTCTCTCTGTCAGGGGAGCTGATGGA 660
Db      601  TCTTAGGAGTACTCTGAGCATGGGTCTCTCTCTCTGTCAGGGGAGCTGATGGA 660
Qy      661  TAAAGTGGGAAAGGACGCTCAGTGTCTTGGGCTCCAGCTGGCCAGCTGCGGATGGGAAA 720
Db      661  TAAAGTGGGAAAGGACGCTCAGTGTCTTGGGCTCCAGCTGGCCAGCTGCGGATGGGAAA 720
Qy      721  CCAAACTCTGCTCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
Db      721  CCAAACTCTGCTCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
Qy      781  GAGGAGCTGAGGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Db      781  GAGGAGCTGAGGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Qy      841  ACAACATCTCTAGCTCCGACCCCTCATCTCTATCAGCACTTACCGGTGTGACTGCC 900
Db      841  ACAACATCTCTAGCTCCGACCCCTCATCTCTATCAGCACTTACCGGTGTGACTGCC 900
Qy      901  CTTGTGAGTACGATACGCTGGGCTGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGG 960
Db      901  CTTGTGAGTACGATACGCTGGGCTGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGG 960
Qy      961  TGATAGGGAATATTATCTTTTGAACCAATGAAGTGTCTTCTCCCTCATCAAAAAAAA 1020
Db      961  TGATAGGGAATATTATCTTTTGAACCAATGAAGTGTCTTCTCCCTCATCAAAAAAAA 1020
Qy      1021  AATTCTTATTTTAGTAGACATGATTTACCAAAATATGTAATGTAATTTGTTGTTG 1080
Db      1021  AATTCTTATTTTAGTAGACATGATTTACCAAAATATGTAATGTAATTTGTTGTTG 1080
Qy      1081  GATTTTATCAATTTAAATTTTGGAAATTTGTTGCTCTTACGGCAACATATATTGAT 1140
Db      1081  GATTTTATCAATTTAAATTTTGGAAATTTGTTGCTCTTACGGCAACATATATTGAT 1140
Qy      1141  TTTGCTCTTGGCTCTGAAAGCCCAAAATATTATTCGCTAGCGCTTACAGAAAAGTC 1200
Db      1141  TTTGCTCTTGGCTCTGAAAGCCCAAAATATTATTCGCTAGCGCTTACAGAAAAGTC 1200
Qy      1201  TGCCTGACTACTGAGCCAGACCTCCATCTCCCTCTGTTGATTTTAAAGAAAGC 1260

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Db 1201 TGCTGACTACTGAGCCAGACCTCCATTACCTCCATCCCTGTGTGATATTTAAAGAAAGC 1260  
QY 1261 CTCAGACAGTAGGAGCTTTTAAAGAAATAAATGACTTGGTTGGCTTGGAGGAGG 1320  
Db 1261 CTCAGACAGTAGGAGCTTTTAAAGAAATAAATGACTTGGTTGGCTTGGAGGAGG 1320  
QY 1321 GGAAGCATTTCAGATGAGCGGTTTCTGCATTAACCTGCTGCTATCAGCATCTCGTGTCTG 1380  
Db 1321 GGAAGCATTTCAGATGAGCGGTTTCTGCATTAACCTGCTGCTATCAGCATCTCGTGTCTG 1380  
QY 1381 TGTGGCTGCGAGGCCCCCTTGGAGGTTCTGGTCTTCACTGCTGCTCTGCTGCTGCTGCTG 1440  
Db 1381 TGTGGCTGCGAGGCCCCCTTGGAGGTTCTGGTCTTCACTGCTGCTCTGCTGCTGCTGCTG 1440  
QY 1441 CCCGCTCTGCTGGGAAATGAGAGCCCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500  
Db 1441 CCCGCTCTGCTGGGAAATGAGAGCCCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500  
QY 1501 TCTTGGGAGCCGCTGGGCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560  
Db 1501 TCTTGGGAGCCGCTGGGCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1560  
QY 1561 CGTGAGAGAGACTTTGAGAGTGGTGAGAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620  
Db 1561 CGTGAGAGAGACTTTGAGAGTGGTGAGAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620  
QY 1621 TGTCTGGGAGGGGAGGCTGATCTCACTCCACTAGTACCTTGGGAGCTGAGGAGCTT 1680  
Db 1621 TGTCTGGGAGGGGAGGCTGATCTCACTCCACTAGTACCTTGGGAGCTGAGGAGCTT 1680  
QY 1681 TTGGCTTCTGAGAGCTGGAAGCTCTTCCATGTGTCCAGCTGCTCTTCTGCTGCTACAA 1740  
Db 1681 TTGGCTTCTGAGAGCTGGAAGCTCTTCCATGTGTCCAGCTGCTCTTCTGCTGCTACAA 1740  
QY 1741 AGGGAGTGTCTCAGTGGCTCAGTGTGGTGTGAGGGGCGGCGGCGGCGGCGGCGGCTCC 1800  
Db 1741 AGGGAGTGTCTCAGTGGCTCAGTGTGGTGTGAGGGGCGGCGGCGGCGGCGGCGGCTCC 1800  
QY 1801 ATAAGGATATCTGGGCTGAGAAATTCGATCTGCCATTCGCAATGGAGATGAGAGCTCAAA 1860  
Db 1801 ATAAGGATATCTGGGCTGAGAAATTCGATCTGCCATTCGCAATGGAGATGAGAGCTCAAA 1860  
QY 1861 TGGAGGAGTCCAGGAGAGTGGTCCGAGTCCGCTGCGGCTGCGCATCCAGGCGGCGGCTG 1920  
Db 1861 TGGAGGAGTCCAGGAGAGTGGTCCGAGTCCGCTGCGGCTGCGCATCCAGGCGGCGGCTG 1920  
QY 1921 GCTTGTCCAGCTCTGTGCAAGCTTGTGTCTTCACTCCAGGGGAGAGAGAGAGAGCTG 1980  
Db 1921 GCTTGTCCAGCTCTGTGCAAGCTTGTGTCTTCACTCCAGGGGAGAGAGAGAGAGCTG 1980  
QY 1981 CAGTTCCTTCTTGTGAGTAACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2040  
Db 1981 CAGTTCCTTCTTGTGAGTAACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2040  
QY 2041 GTGTCTGCGATTTGTGCTTCACTGCTGCTTCACTGCTGCTTCACTGCTGCTGCTGCTG 2100  
Db 2041 GTGTCTGCGATTTGTGCTTCACTGCTGCTTCACTGCTGCTTCACTGCTGCTGCTGCTG 2100  
QY 2101 CACTAGCCAGTTTTCAGGAAGTCACTGGGAGGTTAGATGGGAGGCTCAGGCTCCAGAGC 2160  
Db 2101 CACTAGCCAGTTTTCAGGAAGTCACTGGGAGGTTAGATGGGAGGCTCAGGCTCCAGAGC 2160  
QY 2161 TACTGATGGCCGAGGAGTGTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2220  
Db 2161 TACTGATGGCCGAGGAGTGTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2220  
QY 2221 CTCATGCTCTCAGATAGGTGGAGCAAGTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2280  
Db 2221 CTCATGCTCTCAGATAGGTGGAGCAAGTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2280  
QY 2281 CCTCATGCTGGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2340  
Db 2281 CCTCATGCTGGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2340

QY 2341 CACAGAGAGAAAGGAGCTGTTTGGGTGCTCTCTCGAGCTCCCTGCTGCTGCTGCTGCTG 2400  
Db 2341 CACAGAGAGAAAGGAGCTGTTTGGGTGCTCTCTCGAGCTCCCTGCTGCTGCTGCTGCTG 2400  
QY 2401 GACGGTACTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2460  
Db 2401 GACGGTACTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2460  
QY 2461 ACTTCCACACCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2520  
Db 2461 ACTTCCACACCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2520  
QY 2521 GGGTGGTGTGGGCTTGGATGGGTGAGTGGGTGAGTGGGTGAGTGGGTGAGTGGGTG 2580  
Db 2521 GGGTGGTGTGGGCTTGGATGGGTGAGTGGGTGAGTGGGTGAGTGGGTGAGTGGGTG 2580  
QY 2581 TGAGCTCAAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2640  
Db 2581 TGAGCTCAAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2640  
QY 2641 TGTACTGTACCATAGTGGGAGAGAGTCTGTATGTGGGATCTGTCTGGGTAGAA 2700  
Db 2641 TGTACTGTACCATAGTGGGAGAGAGTCTGTATGTGGGATCTGTCTGGGTAGAA 2700  
QY 2701 TGCAATTAAGTCTACATTTGTAGAGAAAAAATAAAGATGCGGCC 2754  
Db 2701 TGCAATTAAGTCTACATTTGTAGAGAAAAAATAAAGATGCGGCC 2754

## RESULT 3

US-09-989-920-91/c  
; Sequence 91, Application US/09989920  
; Patent No. US20020172957A1  
; GENERAL INFORMATION:  
; APPLICANT: Macina, Roberto  
; APPLICANT: Recipon, Herve  
; APPLICANT: Chen, Sei-yu  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Proteins  
; FILE REFERENCE: DEX-0291  
; CURRENT APPLICATION NUMBER: US/09/989,920  
; CURRENT FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: 60/252,500  
; PRIOR FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 284  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 91  
; LENGTH: 2399  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-989-920-91

Query Match 87.1%; Score 2397.4; DB 9; Length 2399;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 356 TTGAGGGCCAGTGTGGGCTGTGTGAGGACCCAGGCTCTTGGGACCTGCCAGGGGC 415  
Db 2399 TTGAGGGCCAGTGTGGGCTGTGTGAGGACCCAGGCTCTTGGGACCTGCCAGGGGC 2340  
QY 416 ACCCTGAGAGCTCTTGAACCCCACTTGTCTTCCAGACCTTCTGCAAAAGCTCTCTCT 475  
Db 2339 ACCCTGAGAGCTCTTGAACCCCACTTGTCTTCCAGACCTTCTGCAAAAGCTCTCTCT 2280  
QY 476 GCTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 535  
Db 2279 GCTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2220  
QY 536 GCTAGTGGCCAGGCTGTGACCTGCGCATCCCGGCTCTGCGACCTTTAGGGCTTTAGAGG 595  
Db 2219 GCTAGTGGCCAGGCTGTGACCTGCGCATCCCGGCTCTGCGACCTTTAGGGCTTTAGAGG 2160



## RESULT 4

US-09-989-920-99  
; Sequence 99, Application US/09989920  
; Patent No. US20020172957A1  
; GENERAL INFORMATION:  
; APPLICANT: Macina, Roberto  
; APPLICANT: Recipon, Herve  
; APPLICANT: Chen, Sei-Yu  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Proteins  
; FILE REFERENCE: DEX-0291  
; CURRENT APPLICATION NUMBER: US/09/989,920  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: 60/252,500  
; PRIOR FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 284  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 99  
; LENGTH: 960  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (716)..(716)  
; OTHER INFORMATION: a, c, g or t  
US-09-989-920-99

Query Match 22.2%; Score 612.4; DB 9; Length 960;  
Best Local Similarity 99.4%; Pred. No. 8.4e-157;  
Matches 646; Conservative 0; Mismatches 1; Indels 3; Gaps 3;

QY 1658 GTACCTTGGGACTGAGACCTTTGGCTTCTCTGGAGCCTGCAAGCCTCTTCCCATGTG 1717  
DB 41 GTACCTTGGGACTGAGACCTTTGGCTTCTCTGGAGCCTGCAAGCCTCTTCCCATGTG 100

QY 1718 TCCAGTCTCTTCTCTGTACAAAGGGGACTGCTCACAGTGGCCTCAGCTTGGTGGTTTT 1777  
DB 101 TCCAGTCTCTTCTCTGTACAAAGGGGACTGCTCACAGTGGCCTCAGCTTGGTGGTTTT 160

QY 1778 GAGGGGCGCGCCCGCGCCCTCCATAAGGGTATCTGCGCCTGAGAAATCTTGCACTGCC 1837  
DB 161 GAGGGGCGCGCCCGCGCCCTCCATAAGGGTATCTGCGCCTGAGAAATCTTGCACTGCC 220

QY 1838 ATTGAGGATGAGACGCTCAATGGAAGGAGTCCCAAGGAGATGGSTCGGAGTCCGG 1897  
DB 221 ATTGAGGATGAGACGCTCAATGGAAGGAGTCCCAAGGAGATGGSTCGGAGTCCGG 280

QY 1898 CTGTGGCCATCCAGCCCTCTGTGGCTTGTCCAGCTCTGTGCACTCCCTGGTGTCTCACT 1957  
DB 281 CTGTGGCCATCCAGCCCTCTGTGGCTTGTCCAGCTCTGTGCACTCCCTGGTGTCTCACT 340

QY 1958 CCAGGGGAGACAGCAGCCACTGACAGTTCCTTTCTGTGAGTAACAGTAGTAGTAGCAG 2017  
DB 341 CCAGGGGAGACAGCAGCCACTGACAGTTCCTTTCTGTGAGTAACAGTAGTAGTAGCAG 400

QY 2018 CTGGGGCTAACAGGCTGAGCTTGTGTTCTGGGATTTGGTCACTTCTCACTCGATCCT 2077  
DB 401 CTGGGGCTAACAGGCTGAGCTTGTGTTCTGGGATTTGGTCACTTCTCACTCGATCCT 460

QY 2078 CCTAAAGCAATGGGGAGGCCCCCACTAGCCAGCTTTTCAGGAAGTCAACTGGGAGTTA 2137  
DB 461 CCTAAAGCAATGGGGAGGCCCCCACTAGCCAGCTTTTCAGGAAGTCAACTGGGAGTTA 520

QY 2138 GATGGGGCCAGGGTCCACACA-GCTACTGATGGCCGAGCAGCTTCAGCTTCTCTGGTGT 2196  
DB 521 GATGGGGCCAGGGTCCACACA-TGCTGATGGCCGAGCAGCTTCAGCTTCTCTGGTGT 580

QY 2197 CCAGTCCGGAT-CCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCCTTTTG 2255  
DB 581 CCAGTCCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTTCCTTTTG 640

QY 2256 TCACAGTCTGG-CTCTGTCTGAGGCCCTCATTTGCTGGCTGGGTGCTC 2304

## Db

641 TCACAGTCTGGCCCTCTGTCTGAGGCCCTCATTTGCTGGTGGTGGTCTC 690

## RESULT 5

US-10-172-118-2364/c  
; Sequence 2364, Application US/10172118  
; Publication No. US20030224374A1  
; GENERAL INFORMATION:  
; APPLICANT: Dai, Hongyue  
; APPLICANT: He, Fudong  
; APPLICANT: Linsley, Peter  
; APPLICANT: Mao, Mao  
; APPLICANT: Roberts, Chris  
; APPLICANT: Van 't Veer, Laura  
; APPLICANT: Van de Vijver, Marc  
; APPLICANT: Bernards, Rene  
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients  
; FILE REFERENCE: 9301-175-999  
; CURRENT APPLICATION NUMBER: US/10/172,118  
; CURRENT FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: 60/380,770  
; PRIOR FILING DATE: 2002-05-14  
; NUMBER OF SEQ ID NOS: 2699  
; SEQ ID NO 2364  
; LENGTH: 524  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; PUBLICATION INFORMATION:  
; DATABASE ACCESSION NUMBER: Contig46362  
; DATABASE ENTRY DATE: 2001-06-18  
US-10-172-118-2364

Query Match 19.0%; Score 524; DB 15; Length 524;

Best Local Similarity 100.0%; Pred. No. 1e-132;

Matches 524; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 488 TCCCCCAATCTATGGTTCACAGCTAACAGATCTGAGGGCACTGCTGTAGTGGCCAG 547  
DB 524 TCCCCCAATCTATGGTTCACAGCTAACAGATCTGAGGGCACTGCTGTAGTGGCCAG 465

QY 548 GGTGTCACTGTGCATCCCGGCTCTGCCACTTTAGGGCTTTCTAGAGCAGTGTCTTAG 607  
DB 464 GGTGTCACTGTGCATCCCGGCTCTGCCACTTTAGGGCTTTCTAGAGCAGTGTCTTAG 405

QY 608 GAAGTAGCTCTGAGGATGGGTTTCTGCTCTGTGAGGGCAGCTGATGGATAAGGTG 667  
DB 404 GAAGTAGCTCTGAGGATGGGTTTCTGCTCTGTGAGGGCAGCTGATGGATAAGGTG 345

QY 668 GGGAGGACGGTCACTGTGTTGGGCCCCCAGCTGGCCAGCTGGCGATGGGGAAACCAAAACC 727  
DB 344 GGGAGGACGGTCACTGTGTTGGGCCCCCAGCTGGCCAGCTGGCGATGGGGAAACCAAAACC 285

QY 728 ATGTCCCCCAGCGAAGGGCCAGAGTGGGAACTCTGTCTGTATGCCCTTCTGTCTGAGGAGC 787  
DB 284 ATGTCCCCCAGCGAAGGGCCAGAGTGGGAACTCTGTCTGTATGCCCTTCTGTCTGAGGAGC 225

QY 788 CTGTAGGTGGGACAGAGGGCCAGGGGAAAGTTTTCAGGCCTTCATCAAGAGAACACAT 847  
DB 224 CTGTAGGTGGGACAGAGGGCCAGGGGAAAGTTTTCAGGCCTTCATCAAGAGAACACAT 165

QY 848 CTCTAGCTCCGACCCCTCATCTCTATCAGCACTACCGGTGTGTGATCTGCCCTTGTCA 907  
DB 164 CTCTAGCTCCGACCCCTCATCTCTATCAGCACTACCGGTGTGTGATCTGCCCTTGTCA 105

QY 908 GGTAGCATAGTGGGCCACCTGGCCAGCTGGCTGTTTATGCCACTGATTTATGATAGG 967  
DB 104 GGTAGCATAGTGGGCCACCTGGCCAGCTGGCTGTTTATGCCACTGATTTATGATAGG 45

QY 968 GAATATTTATCTTTGAACCAATGAAGTGTGTTTCTCCCCCATCAC 1011  
DB 44 GAATATTTATCTTTGAACCAATGAAGTGTGTTTCTCCCCCATCAC 1

## RESULT 6

US-10-342-887-2364/c  
; Sequence 2364, Application US/10342887  
; Publication No. US20040058340A1  
; GENERAL INFORMATION:  
; APPLICANT: Dai, Hongyue  
; APPLICANT: He, Yudong  
; APPLICANT: Linsley, Peter S.  
; APPLICANT: Mao, Mao  
; APPLICANT: Roberts, Christopher J.  
; APPLICANT: Van 't Veer, Laura Johanna  
; APPLICANT: Van de Vijver, Marc J.  
; APPLICANT: Bernards, Rene  
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients  
; FILE REFERENCE: 9301-188-999  
; CURRENT APPLICATION NUMBER: US/10/342,887  
; CURRENT FILING DATE: 2003-01-15  
; PRIOR APPLICATION NUMBER: 60/298,918  
; PRIOR FILING DATE: 2001-06-18  
; PRIOR APPLICATION NUMBER: 60/380,710  
; PRIOR FILING DATE: 2002-05-14  
; PRIOR APPLICATION NUMBER: 10/172,118  
; PRIOR FILING DATE: 2002-06-14  
; NUMBER OF SEQ ID NOS: 2699  
; SEQ ID NO 2364  
; LENGTH: 524  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-342-887-2364

Query Match 19.0%; Score 524; DB 15; Length 524;  
Best Local Similarity 100.0%; Pred. No. 1e-132;  
Matches 524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	488	TCCCCCAATCTATGGGTACAGCTTAACAGATCTCAGGGCACTGCTGCTAGTGGCCAG	547
Db	524	TCCCCCAATCTATGGGTACAGCTTAACAGATCTCAGGGCACTGCTGCTAGTGGCCAG	465
Qy	548	GGCTGCACCTGCCATCCCCGGCTCTGCCACTTTAGAGGCTTTAGAGGCACTGCTCTAG	607
Db	464	GGCTGCACCTGCCATCCCCGGCTCTGCCACTTTAGAGGCTTTAGAGGCACTGCTCTAG	405
Qy	608	GAAGTAGCTCTGAGGCAATGGTTTTCTGCTCCTGTGAGGCGAGCTGATGGGATAGGTG	667
Db	404	GAAGTAGCTCTGAGGCAATGGTTTTCTGCTCCTGTGAGGCGAGCTGATGGGATAGGTG	345
Qy	668	GGGAAGGACGGTCACTGCTTGGGCCCGAGCTGGCCAGCTGGCGATGGGAAACCAACC	727
Db	344	GGGAAGGACGGTCACTGCTTGGGCCCGAGCTGGCCAGCTGGCGATGGGAAACCAACC	285
Qy	728	ATGTCCCCCAGCGAAGGGCCAGAGTGGACCTGCTCATGCCCTTCCTCGAGGAGC	787
Db	284	ATGTCCCCCAGCGAAGGGCCAGAGTGGAACTGCTCATGCCCTTCCTCGAGGAGC	225
Qy	788	CCTGAGGTGGCCAGCAGGGGCCAGGGGAAGTTTTTCAGGCGCTTCATCAAGAGAACACAT	847
Db	224	CCTGAGGTGGCCAGCAGGGGCCAGGGGAAGTTTTTCAGGCGCTTCATCAAGAGAACACAT	165
Qy	848	CCTGAGTCCGACCCCTCATCTGTATCAGCACTTACGGTGTGTGACTGCCCTTGCTCA	907
Db	164	CCTGAGTCCGACCCCTCATCTGTATCAGCACTTACGGTGTGTGACTGCCCTTGCTCA	105
Qy	908	GCTAGCATACGGTGGGCCCACTGGCCACCTGGGTGTTTATGCCACTGATTTATGATAGG	967
Db	104	GCTAGCATACGGTGGGCCCACTGGCCACCTGGGTGTTTATGCCACTGATTTATGATAGG	45
Qy	968	GAATATTATCTTTGAACCAATGAAGTGTCTTCTCCGCCATCAC	1011
Db	44	GAATATTATCTTTGAACCAATGAAGTGTCTTCTCCGCCATCAC	1

## RESULT 7

US-10-074-475-1  
; Sequence 1, Application US/10074475  
; Publication No. US20030092898A1  
; GENERAL INFORMATION:  
; APPLICANT: Salceda, Susana  
; APPLICANT: Macina, Roberto  
; APPLICANT: Hu, Ping  
; APPLICANT: Recipon, Herve  
; APPLICANT: Karra, Kalpana  
; APPLICANT: Cafferkey, Robert  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific  
; FILE REFERENCE: DEX-0313  
; CURRENT APPLICATION NUMBER: US/10/074,475  
; CURRENT FILING DATE: 2002-02-13  
; PRIOR APPLICATION NUMBER: 60/268,292  
; PRIOR FILING DATE: 2001-02-13  
; NUMBER OF SEQ ID NOS: 295  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 591  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-074-475-1

Query Match 17.6%; Score 483.8; DB 14; Length 591;  
Best Local Similarity 97.5%; Pred. No. 1.2e-121;  
Matches 555; Conservative 0; Mismatches 7; Indels 7; Gaps 6;

Qy	1735	CTACAAAGGGGACTGCTCACAGTGGCCCTCAGCTTGGTGGTTTGGAGGGGCCCGCCCCCGG	1794
Db	12	CTACAAAGGGGACTGCTCACAGTGGCCCTCAGCTTGGTGGTTTGGAGGGGCCCGCCCCCGG	71
Qy	1795	CCCTCCATAAGGGTATCCTGGCCCTGAGAAATCTGCATCTGCCATTTGA-GGATGGACAG	1853
Db	72	CCCTCCATAAGGGTATCCTGGCCCTGAGAAATCTGCATCTGCCATTTGGATGATACAG	131
Qy	1854	CCTCAAAATGGAG-GAGTCCACGGGAGATGGGTCCGAGTCC-GGCTGTGGCCATCCAG	1911
Db	132	CCTCAAAATGGAGTGGTCCACGGGAGATGGGTCCGAGTCCGAGGCTGTGGCCATCCAG	191
Qy	1912	CCCTCTGTGGCTGTGCCAGCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGGCCAGACAG	1971
Db	192	CCCTCTGTGGCTGTGCCAGCTCTGTGCACCCCTGGTGTCTTCACTCCAGGGGCCAGACAG	251
Qy	1972	CAGCCACTGCAGTTCCTTTCTTCGTGAG-TAACATAGTAGTAGAGCTGGGGCTTAACAG	2030
Db	252	TAGCCACTGCAGTTCCTTTCTTCGTGAGTAAACATAGTAGAGCTGGGGCTTAACAG	311
Qy	2031	GCTAGGCTTTGTCTGGCAATTTGGTCCAGCTTCTCACTCGATCCTCCCTAAAGCAATG	2090
Db	312	GCTAGGCTTTGTCTGGCAATTTGGTCCAGCTTCTCACTCGATCCTCCCTAAAGCAATG	371
Qy	2091	GGGAGGCCCGCCACTAGCCAGTTTTCAGGAAGTCAACTGGGAGGTTAGATGGGGCCAG-	2149
Db	372	GGGAGGCCCGCCACTAGCCAGTTTTCAGGAAGTCAACTGGGAGGTTAGATGGGGCCAG	431
Qy	2150	GGTCCCAACAGCTACTGATGGGCCCGAGCCAGGTTGAGCTT-CCTGGTCCAGTCCGGAT	2207
Db	432	GGTCCCAACAGCTACTGATGGGCCCGAGCCAGGTTGAGCTT-CCTGGTCCAGTCCGGAT	491
Qy	2208	CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACCAAGTTCCTTTGTCAAGTGTCTG	2267
Db	492	CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACCAAGTTCCTTTGTCAAGTGTCTG	551
Qy	2268	CTCTGTCTTGAGGCTCATTTGTGCTGGCTGG	2296
Db	552	CTCTGTCTTGAGGCTCATTTGTGCTGGCTGG	580

## RESULT 8

US-10-609-021-176

Sequence 176, Application US/10609021

Publication No. US20040086913A1

GENERAL INFORMATION:

APPLICANT: Williams, Lewis T.

APPLICANT: Escobedo, Jaime

APPLICANT: Innis, Michael A.

APPLICANT: Garcia, Pablo Dominguez

APPLICANT: Sudduth-Klinger, Julie

APPLICANT: Reinhard, Christoph

APPLICANT: He, Zhijun

APPLICANT: Randazzo, Filippo

APPLICANT: Kennedy, Giulia C.

APPLICANT: Pot, David

APPLICANT: Kassam, Altaf

APPLICANT: Lamson, George

APPLICANT: Drmanac, Radoje

APPLICANT: Dickson, Mark

APPLICANT: Labat, Ivan

APPLICANT: Jones, Lee William

TITLE OF INVENTION: Human Genes and Gene Expression Products

FILE REFERENCE: XVI

CURRENT FILING DATE: 2003-06-26

PRIOR APPLICATION NUMBER: US/10/609,021

PRIOR FILING DATE: 2003-06-26

PRIOR APPLICATION NUMBER: 60/192,583

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: 09/819,150

PRIOR FILING DATE: 2001-03-27

NUMBER OF SEQ ID NOS: 324

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 176

LENGTH: 395

TYPE: DNA

ORGANISM: Homo sapiens

US-10-609-021-176

Query Match 13.0%; Score 357.4; DB 16; Length 395;

Best Local Similarity 96.9%; Pred. No. 4.2e-87;

Matches 375; Conservative 0; Mismatches 11; Indels 1; Gaps 1;

QY 1216 CAGACCTCGATACCTCCATCCCTGTTGGATTATTTAAAGAAAGCCCTCAGACAGTAAGG 1275

DB 9 CAGACCTCCATACCTCCATCCCTGTTGGATTATTTAAAGAAAGCCCTCAGACAGTAAGG 68

QY 1276 C-TTTTAAAAAGATAAAAGACTTGGTTTGGCTTGAAGCAGGGAAGCATTTCAGAT 1334

DB 69 CTTTAAAAAGATAAAAGACTTGGTTTGGCTTGAAGCAGGGAAGCATTTCAGAT 128

QY 1335 GAGCGGTTCTGCATTAACCCCTGCTATCAGCATCTGGTCTCTGTGGCTGGCGAGC 1394

DB 129 GAGCGGTTCTGCATTAACCCCTGCTATCAGCATCTGGTCTCTGTGGCTGGCGAGC 188

QY 1395 CCCCTTGAAGGTTCTGCTGCTTCCAGCTGCTCTGAGAGTCCACCCGCTCTGCT 1454

DB 189 CCCCTTGAAGGTTCTGCTGCTTCCAGCTGCTCTGAGAGTCCACCCGCTCTGCT 248

QY 1455 GGGATGACAGACCCCTTTCCTTCTTCCCTCCCTGCTCTGCTGCTGCTGCTGCT 1514

DB 249 GGGATGACAGACCCCTTTCCTTCTTCCCTCCCTGCTCTGCTGCTGCTGCTGCT 308

QY 1515 TGGGCTTGTCTGCTATCCCTCCGAGGTCCTCAGGTTGATGCTGGAGAGGACT 1574

DB 309 TGGGCTTGTCTGCTATCCCTCCGAGGTCCTCAGGTTGATGCTGGAGAGGACT 368

QY 1575 TTGAGCAGTGGTGGCAGCAGTGGCT 1601

DB 369 TTGAGCAGTGGTGGCAGCAGTGGCT 395

RESULT 9

US-10-116-712-429

Sequence 429, Application US/10116712

Publication No. US20030194764A1

GENERAL INFORMATION:

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Schweizer, Ann

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

FILE REFERENCE: 210121.568

CURRENT APPLICATION NUMBER: US/10/116,712

CURRENT FILING DATE: 2002-04-07

NUMBER OF SEQ ID NOS: 670

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 429

LENGTH: 295

TYPE: DNA

ORGANISM: Homo sapiens

US-10-116-712-429

Query Match 10.7%; Score 295; DB 15; Length 295;

Best Local Similarity 100.0%; Pred. No. 4.6e-70;

Matches 295; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1723 CTGCTCTTCTGCTACAAAGGGGACTGCTCAGAGTGGCTCAGCTTGTGTTTGGGG 1782

DB 1 CTGCTCTTCTGCTACAAAGGGGACTGCTCAGAGTGGCTCAGCTTGTGTTTGGGG 60

QY 1783 GCGGCCCCCGGCCCCCTCCATAAGGGTATCCTGGGCTGAGAACTCTGCATCTGCCATTGG 1842

DB 61 GCGGCCCCCGGCCCCCTCCATAAGGGTATCCTGGGCTGAGAACTCTGCATCTGCCATTGG 120

QY 1843 AGGATGGACAGCCTCAAAATGGAAGAGTCCACGGGAGATGGTCCGAGGTCGGCTGTG 1902

DB 121 AGGATGGACAGCCTCAAAATGGAAGAGTCCACGGGAGATGGTCCGAGGTCGGCTGTG 180

QY 1903 GCATCCAGCCCCCTGTGCTTGTCCAGCTCTGTGCACTCTGTGCACTCTGTGCACTCCAGG 1962

DB 181 GCATCCAGCCCCCTGTGCTTGTCCAGCTCTGTGCACTCTGTGCACTCTGTGCACTCCAGG 240

QY 1963 GGCAGACAGCAGCCACTGCAGTTCCTTTCTTCGTGAGTAACAGTAGTAGTACAGCAG 2017

DB 241 GGCAGACAGCAGCCACTGCAGTTCCTTTCTTCGTGAGTAACAGTAGTAGTACAGCAG 295

RESULT 10

US-09-989-920-90/c

Sequence 90, Application US/09989920

Patent No. US20020172957A1

GENERAL INFORMATION:

APPLICANT: Macina, Roberto

APPLICANT: Recipon, Herve

APPLICANT: Chen, Sei-Yu

APPLICANT: Sun, Yongming

APPLICANT: Liu, Chenghua

TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Prote

FILE REFERENCE: DEX-0291

CURRENT APPLICATION NUMBER: US/09/989,920

CURRENT FILING DATE: 2001-11-21

PRIOR APPLICATION NUMBER: 60/252,500

PRIOR FILING DATE: 2000-11-22

NUMBER OF SEQ ID NOS: 284

SOFTWARE: PatentIn version 3.1

SEQ ID NO 90

LENGTH: 251

TYPE: DNA

ORGANISM: Homo sapien

US-09-989-920-90

Query Match 8.1%; Score 224.4; DB 9; Length 251;

Best Local Similarity 98.8%; Pred. No. 9.6e-51;

Matches 237; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

QY 2381 CCTCCCGTGTGGTGAAGCAGCGTTACTGTGTCTCTTAATGTCATGATTTAAAT 2440

DB 251 CCTCCCGTGTGGTGAAGCAGCGTTACTGTGTCTCTTAATGTCATGATTTAAAT 192

QY 2441 GATTCTTTCTAAAGATGTAACCTCCACACCTTTCTCCAGATGGGTGACTCTTTTCTAA 2500  
 Db 191 GATTCTTTCTAAAGATGTAACCTCCACACCTTTCTCCAGATGGGTGACTCTTTTCTAA 132  
 QY 2501 AGGTGGTGGAGTATCTGTCGGGTGGTGTGGCCCTTGGATGGTCAAGTGGGTGTGAGA 2560  
 Db 131 AGGTGGTGGAGTATCTGTCGGGTGGTGTGGCCCTTGGATGGTCAAGTGGGTGTGAGA 72  
 QY 2561 GGTCTGGGGAGGT--GGGCGTTGAGCTCAAAAGTTGCTTACTGCCATGTTTTGTACCT 2618  
 Db 71 GGTCTGGGGAGGTGGCGCGTTGAGCTCAAAAGTTGCTTACTGCCATGTTTTGTACCT 12

RESULT 11

US-10-102-524-1276/c  
 ; Sequence 1276, Application US/10102524  
 ; Publication No. US20030109434A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Algate, Paul A.  
 ; APPLICANT: Mannion, Jane  
 ; APPLICANT: Gaiger, Alexander  
 ; APPLICANT: Gordon, Brian  
 ; APPLICANT: Harlocker, Susan L.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 ; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF KIDNEY CANCER  
 ; FILE REFERENCE: 210121.572  
 ; CURRENT APPLICATION NUMBER: US/10/102.524  
 ; CURRENT FILING DATE: 2002-03-19  
 ; NUMBER OF SEQ ID NOS: 1863  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1276  
 ; LENGTH: 161  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-102-524-1276

Query Match 5.8%; Score 161; DB 15; Length 161;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-33;  
 Matches 161; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1727 TCTTCCTGCTACAAAGGGGACTGCTCAGTGGGCTCAGCTTGGTGGTGGTGGGCGG 1786  
 Db 161 TCTTCCTGCTACAAAGGGGACTGCTCAGTGGGCTCAGCTTGGTGGTGGTGGGCGG 102  
 QY 1787 CCCCCGGCCCTCATAAGGATATCTGGGCTCAGAAATCTGCAATCTGCCATGGAGGA 1846  
 Db 101 CCCCCGGCCCTCATAAGGATATCTGGGCTCAGAAATCTGCAATCTGCCATGGAGGA 42  
 QY 1847 TGGACAGCTCAAAATGGAAGGAGTCCACGGGAGATGGGTC 1887  
 Db 41 TGGACAGCTCAAAATGGAAGGAGTCCACGGGAGATGGGTC 1

RESULT 12

US-09-854-867-10  
 ; Sequence 10, Application US/09854867  
 ; Publication No. US20030224356A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: JOAN, KNOLL H  
 ; APPLICANT: ROGAN, PETER K  
 ; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING  
 ; FILE REFERENCE: 30307  
 ; CURRENT APPLICATION NUMBER: US/09/854.867  
 ; CURRENT FILING DATE: 2003-05-08  
 ; NUMBER OF SEQ ID NOS: 613  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 10  
 ; LENGTH: 2285  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: repeat\_region

Query Match 3.4%; Score 93.6; DB 10; Length 2285;  
 Best Local Similarity 67.3%; Pred. No. 2.5e-14;  
 Matches 183; Conservative 1; Mismatches 70; Indels 18; Gaps 3;

QY 957 TTTATGATAGGAATATTTATCTTTGAACCCCAATGAAGTGTCTTCTCCCCCATCACAAAA 1016  
 Db 2016 TTGATGATAGGACACACAACTTTGACCCCAATTAAGCAAAATGTATCCCAAAAAAGA 2075  
 QY 1017 AAAAAATCTTATTTTAGTAGACATGTATTACAAAAATATGTACTCAATTATTGTAT 1076

LOCATION: (1)..(2285)  
 OTHER INFORMATION: cheshire  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (377)..(377)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (580)..(580)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (651)..(651)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (664)..(664)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (725)..(725)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (728)..(728)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1095)..(1095)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1151)..(1151)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1281)..(1281)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1351)..(1351)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1370)..(1370)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1385)..(1385)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1885)..(1885)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1912)..(1912)  
 OTHER INFORMATION: n is a, c, g or t  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1990)..(1990)  
 OTHER INFORMATION: n is a, c, g or t  
 US-09-854-867-10

Db 2076 ATTCAATCTCTCTCATAGTACCTGTAATTA--CAAAAAATGTACTCAATTAATTAATW 2133  
Qy 1077 TTGGATTTTATCAAT-----TAAAAATGTGGAATTTGTTGCTCTTA----- 1122  
Db 2134 TTATTATATTTGAATTTCAATCAATAAAATTTGGAATTTTTCTCTGTTATATAAGT 2193  
Qy 1123 --CGCACATAATATTAATTTGCTCTGCTCTGAAAGCCCAAAATTTACCGTCT 1180  
Db 2194 ACCTACATAATATCTGATTTGCTCTGCTCTGAAAGCCCAAAATTTTACTATCT 2253  
Qy 1181 AGCCCGTTACAGAAAAGTCTGCTGACTACTG 1212  
Db 2254 GGCCCTTTACAGAAAAGTTGCGGACCCCTG 2285

RESULT 13  
US-09-764-878-292/c  
; Sequence 292, Application US/09764878  
; Patent No. US20020090615A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA121  
; CURRENT APPLICATION NUMBER: US/09/764,878  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 428  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 292  
; LENGTH: 32038  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-878-292

Query Match 2.7%; Score 75; DB 9; Length 32038;  
Best Local Similarity 65.9%; Pred. No. 1.5e-08;  
Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

Qy 1013 AAAAAAAATCTTATTTTAGTAGACATGTAATTTACCAAAATATGTACTCAATTAAT 1072  
Db 28877 AATATTTAATCTTTTCATTAAGTAAACCCGTAATACAAAATATTTCTTAATTAAT 28818  
Qy 1073 GTATTTGGAATTTATCAATTTAAATTTGGAATTTGTTGCTCTTACGC----- 1125  
Db 28817 G--TTTGAATTTTGTCAATAAAATTTTGTGCAAAATTTATTTCTCTCTAGTTATTA 28760  
Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAATATTACCGT 1178  
Db 28759 GTATCTACATAACAATCTCAGTTTACCTCTTAGCCCAAGCCCTAAATATTACTAT 28700

RESULT 14  
US-09-764-878-292/c  
; Sequence 292, Application US/10079854  
; Publication No. US20030054369A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA121C1  
; CURRENT APPLICATION NUMBER: US/10/079,854  
; CURRENT FILING DATE: 2002-02-22  
; Prior application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 428  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 292  
; LENGTH: 32038  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-10-079-854-292

Query Match 2.7%; Score 75; DB 14; Length 32038;  
Best Local Similarity 65.9%; Pred. No. 1.5e-08;  
Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

Qy 1013 AAAAAAAATCTTATTTTAGTAGACATGTAATTTACCAAAATATGTACTCAATTAAT 1072  
Db 28877 AATATTTAATCTTTTCATTAAGTAAACCCGTAATACAAAATATTTCTTAATTAAT 28818  
Qy 1073 GTATTTGGAATTTATCAATTTAAATTTGGAATTTGTTGCTCTTACGC----- 1125  
Db 28817 G--TTTGAATTTTGTCAATAAAATTTTGTGCAAAATTTATTTCTCTCTAGTTATTA 28760  
Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAATATTACCGT 1178  
Db 28759 GTATCTACATAACAATCTCAGTTTACCTCTTAGCCCAAGCCCTAAATATTACTAT 28700

RESULT 15  
US-09-984-429-498  
; Sequence 498, Application US/09984429  
; Publication No. US20040010132A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 53 Human Secreted Proteins  
; FILE REFERENCE: P2018P2  
; CURRENT APPLICATION NUMBER: US/09/984,429  
; CURRENT FILING DATE: 2001-10-30  
; PRIOR APPLICATION NUMBER: 60/244,591  
; PRIOR FILING DATE: 2000-11-01  
; PRIOR APPLICATION NUMBER: 09/288,143  
; PRIOR FILING DATE: 1999-04-08  
; PRIOR APPLICATION NUMBER: PCT/US98/21142  
; PRIOR FILING DATE: 1998-10-08  
; PRIOR APPLICATION NUMBER: 60/061,463  
; PRIOR FILING DATE: 1997-10-09  
; PRIOR APPLICATION NUMBER: 60/061,529  
; PRIOR FILING DATE: 1997-10-09  
; PRIOR APPLICATION NUMBER: 60/071,498  
; PRIOR FILING DATE: 1997-10-09  
; PRIOR APPLICATION NUMBER: 60/061,527  
; PRIOR FILING DATE: 1997-10-09  
; PRIOR APPLICATION NUMBER: 60/061,536  
; PRIOR FILING DATE: 1997-10-09  
; PRIOR APPLICATION NUMBER: 60/061,532  
; PRIOR FILING DATE: 1997-10-09  
; NUMBER OF SEQ ID NOS: 727  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 498  
; LENGTH: 32844  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-984-429-498

Query Match 2.7%; Score 75; DB 11; Length 32844;  
Best Local Similarity 65.9%; Pred. No. 1.5e-08;  
Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

Qy 1013 AAAAAAAATCTTATTTTAGTAGACATGTAATTTACCAAAATATGTACTCAATTAAT 1072  
Db 3968 AATATTTAATCTTTTCATTAAGTAAACCCGTAATACAAAATATTTCTTAATTAAT 4027  
Qy 1073 GTATTTGGAATTTATCAATTTAAATTTGGAATTTGTTGCTCTTACGC----- 1125  
Db 4028 G--TTTGAATTTTGTCAATAAAATTTTGTGCAAAATTTATTTCTCTCTAGTTATTA 4085  
Qy 1126 -----CAACATAATATTGATTTTGGCTCTTGGCTCTGAAAGCCCAAAATATTACCGT 1178



Db 4086 GTATCTACATACAAATCTCAGTTTTTACCTCTTAGCCCAAGCCTAAATATTTACTAT 4145  
QY 1179 CTAGCCCGTTACAGAAAAAGTCTGCTGACTACTGAGCCAGACC 1221  
Db 4146 CTGCCCCCTTTATAGAAAAAGTTTCCCTGACCTCTGCCCTAGAGC 4188

Search completed: November 29, 2004, 15:19:46  
Job time : 2343 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 1281 Seconds

(without alignments)  
11285.641 Million cell updates/sec

Title: US-09-989-920-100

Perfect score: 2754

Sequence: 1 gccagagagcctcagctt.....aaaaataaaagatgggcc 2754

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N\_Geneseq\_23Sep04:\*

1: Geneseqn1980s:\*

2: Geneseqn1990s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2754	100.0	2754	6	Abx92058 Lung spec
2	2754	100.0	2754	6	Abt07523 Human bre
3	2397.4	87.1	2399	6	Abx92049 Lung spec
4	612.4	22.2	960	6	Abx92057 Lung spec
5	554	20.1	611	5	Abv54530 Human pro
6	483.8	17.6	591	6	Abt07522 Human bre
7	357.4	13.0	395	4	Aas59058 Human can
8	295	10.7	295	10	Add49697 Human lun
9	224.4	8.1	251	6	Abx92048 Lung spec
10	76.6	2.8	736	3	Aaz35057 Pluripote
11	75	2.7	32038	4	Aak90877 Human dig
12	75	2.7	32038	4	Aak89980 Human dig
13	75	2.7	32038	5	Aas30028 Human lun
14	75	2.7	32038	10	Adb33365 Human nov
15	75	2.7	32844	12	Adj12644 DNA fragm
16	70.8	2.6	10410	12	Adn37124 DNA seque
17	64.8	2.4	4153	4	Aak6121 Human imm
18	58.8	2.1	120670	12	Adq59167 MSI-H car
19	56.6	2.1	2000	8	Ada71938 Rice gene
20	56.2	2.0	10472	12	Adj12647 DNA fragm
21	56.2	2.0	240823	10	Add69391 Human PG-

#### ALIGNMENTS

##### RESULT 1

ABX92058

ID ABX92058 standard; cdNA; 2754 BP.

XX AC ABX92058;

DT 08-MAY-2003 (first entry)

XX DE Lung specific nucleic acid (LSNA) #100.

XX KW Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;  
XX KW cancer monitoring; cancer staging; cancer imaging; lung cancer;  
XX KW non-cancerous diseases of the lung; transgenic animal; gene; ss.

XX OS Homo sapiens.

XX PN WO200268633-A2.

XX PD 06-SEP-2002.

XX PF 21-NOV-2001; 2001WO-US043612.

XX PR 22-NOV-2000; 2000US-0252500P.

XX PA (DIAD-) DIADEXUS INC.

XX PI Macina RA, Recipon H, Chen S, Sun Y, Liu C;

XX DR WPI; 2002-713376/77.

XX PT New isolated human nucleic acid molecule and polypeptide, useful for  
XX PT identifying, diagnosing, monitoring, staging, imaging and treating lung  
XX PT cancer and non-cancerous diseases of the lung.  
XX PS Claim 1; Page 246-248; 389pp; English.  
XX CC The invention describes an isolated human nucleic acid (I) encoding any  
XX CC of 120 10-1533 residue amino acid sequences (S1), given in the  
XX CC specification, comprising any of 164 179-12421 base pair sequences (S2),  
XX CC given in the specification. The methods and compositions of the present  
XX CC invention are useful for identifying, diagnosing, monitoring, staging,  
XX CC imaging and treating lung cancer and non-cancerous diseases of the lung.  
XX CC They are also used for identifying lung tissue, monitoring and  
XX CC identifying and/or designing antagonists of the polypeptide of the

C 22 56.2 2.0 240825 4 AAF24497 Human PG-  
C 23 56.2 2.0 240825 6 ABQ81802 Human PG-  
C 24 55.8 2.0 147419 6 ABR83574 Human CDN  
C 25 55 2.0 200620 12 ADO56277 Human pre  
C 26 51.4 1.9 75033 12 ADP66763 Human end  
C 27 50.8 1.8 1940 10 ADA52599 Human cod  
C 28 50.8 1.8 2193 8 ABX05077 Human nov  
C 29 50.8 1.8 2337 6 AAL49331 Human ncl  
C 30 50.6 1.8 9544 4 AAL04799 Human rep  
C 31 50.6 1.8 9544 4 ABL97693 Human tes  
C 32 50.6 1.8 32476 4 AAK85314 Human imm  
C 33 50.2 1.8 2000 8 ADA71938 Rice gene  
C 34 49.4 1.8 495 6 ABN79060 Human ORF  
C 35 49 1.8 3365 11 ADM02732 Human CDN  
C 36 49 1.8 6330 4 AAS4431 11-cis re  
C 37 49 1.8 6330 10 ADD71027 Human ret  
C 38 49 1.8 6330 12 ADQ19466 Human sof  
C 39 49 1.8 19806 6 ABN89476 Human deh  
C 40 47.4 1.7 14024 4 AAS36381 Human car  
C 41 47.4 1.7 14024 5 AAS30157 Human lun  
C 42 47.4 1.7 14024 10 ADB33494 Human nov  
C 43 47.4 1.7 14024 10 ADE47075 Human car  
C 44 47.4 1.7 28965 10 ADC86716 Human GPC  
C 45 47 1.7 265 3 AAC23203 Human sec

CC invention, gene therapy, production of transgenic animals and production  
CC of engineered lung tissue for treatment and research. This sequence  
XX encodes a lung specific nucleic acid

SQ Sequence 2754 BP; 557 A; 720 C; 753 G; 724 T; 0 U; 0 Other;

Query Match 100.0%; Score 2754; DB 6; Length 2754;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2754; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GCCAAGCAGCCTCAGCTTGCAGAGTGCGAGATGACTGCTGCTCCCTTGGATTGG 60  
1 GCCAAGCAGCCTCAGCTTGCAGAGTGCGAGATGACTGCTGCTCCCTTGGATTGG 60  
61 GGAAACAGGCTCCCTCGGTAGCTCGATGATCCTCTTTTGATCTTGTGTGACCTCTGGA 120  
61 GGAAACAGGCTCCCTCGGTAGCTCGATGATCCTCTTTTGATCTTGTGTGACCTCTGGA 120  
121 GAGTGATGAGCTGGTGGCTTAGCTTTCTAGACAGTGTAATTTGCACCTGGCGATGT 180  
121 GAGTGATGAGCTGGTGGCTTAGCTTTCTAGACAGTGTAATTTGCACCTGGCGATGT 180  
181 CCCAGAGCAGGCGAAGGTCTCTAGAGCGGTCTCCACATGACTGGCTTACACAGGCA 240  
181 CCCAGAGCAGGCGAAGGTCTCTAGAGCGGTCTCCACATGACTGGCTTACACAGGCA 240  
241 CTTCGGCTCGGGTTGTCATGCTCTGTGTCATCTTACCCTGTCAGGGTTGAGGAAAT 300  
241 CTTCGGCTCGGGTTGTCATGCTCTGTGTCATCTTACCCTGTCAGGGTTGAGGAAAT 300  
301 GTTTGTACCTCTTCTGATTCGCACTCTCTCCATGCGCCCTTAGGACAGAGCTTGG 360  
301 GTTTGTACCTCTTCTGATTCGCACTCTCTCCATGCGCCCTTAGGACAGAGCTTGG 360  
361 GGCCAGTGAGGCGTGTGTCAGGACACCCAGCGCTCTTGGACCTGCCAGGGGACCCCT 420  
361 GGCCAGTGAGGCGTGTGTCAGGACACCCAGCGCTCTTGGACCTGCCAGGGGACCCCT 420  
421 GAGAGCTCTGAAACCCCACTTACCTTCCAGACTTCTGCAAAAGCTCTCTCTGGCTT 480  
421 GAGAGCTCTGAAACCCCACTTACCTTCCAGACTTCTGCAAAAGCTCTCTCTGGCTT 480  
481 TCCTCTCCCTCCCAATCTATGGGTACAGCTTAAACAGATCTGAGGGCAACTCTGTGTAG 540  
481 TCCTCTCCCTCCCAATCTATGGGTACAGCTTAAACAGATCTGAGGGCAACTCTGTGTAG 540  
541 TGGCCAGGGCTGCACCTGCCATCCCGGCTCTGCACTTTAGGCGCTCTAGAGGCAATG 600  
541 TGGCCAGGGCTGCACCTGCCATCCCGGCTCTGCACTTTAGGCGCTCTAGAGGCAATG 600  
601 TCCCTTAGGAAGTAGCTCTGAGGCAATGGTCTTCTGCTCTGTCAGGGCAGCTGATGGGA 660  
601 TCCCTTAGGAAGTAGCTCTGAGGCAATGGTCTTCTGCTCTGTCAGGGCAGCTGATGGGA 660  
661 TAAAGTGGGGAAGACGCTGAGTGTGGGGCCCGAGCTGGCCAGCTTGGCGATGGGGAAA 720  
661 TAAAGTGGGGAAGACGCTGAGTGTGGGGCCCGAGCTGGCCAGCTTGGCGATGGGGAAA 720  
721 CCMAACCATGTCCCCAGCAGGAGGCGCAGAGTGAGGAACTGTCTCTATGCGCTTCGTCT 780  
721 CCMAACCATGTCCCCAGCAGGAGGCGCAGAGTGAGGAACTGTCTCTATGCGCTTCGTCT 780  
781 GAGGAGCCCTGAGTGGGCGACAGGGGCGAGGGAAATTTTTCAGGCTTCTATCAAGAGA 840  
781 GAGGAGCCCTGAGTGGGCGACAGGGGCGAGGGAAATTTTTCAGGCTTCTATCAAGAGA 840  
841 ACAACATCTCAGCTCCGACCCCTCATCTGTATCAGCACTTACCGCTGTGTGACTGCC 900  
841 ACAACATCTCAGCTCCGACCCCTCATCTGTGTATCAGCACTTACCGCTGTGTGACTGCC 900  
901 CTTGTGAGTACGATPACGGTGGGGCCCACTGGGCCCACTGGCTGTTTATGCCACTGATTTA 960  
901 CTTGTGAGTACGATPACGGTGGGGCCCACTGGGCCCACTGGCTGTTTATGCCACTGATTTA 960

QY 961 TGATAGGGAATATTATTTGTAACCCCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA 1020  
DB 961 TGATAGGGAATATTATCTTTTGAACCCCAATGAAGTGTCTTCTCCCCCATCACAAAAAAA 1020  
QY 1021 AATTTCTATTTTAGTAGACATGTATTTTACCAAAATATGTACTCAATATGTATTTTG 1080  
DB 1021 AATTTCTATTTTAGTAGACATGTATTTTACCAAAATATGTACTCAATATGTATTTTG 1080  
QY 1081 GATTTTATCAATTTAAATTTGGAATTTGTTTGTCTCTTACGCCCAACAATAATTGAT 1140  
DB 1081 GATTTTATCAATTTAAATTTGGAATTTGTTTGTCTCTTACGCCCAACAATAATTGAT 1140  
QY 1141 TTTGCTCTTTGGCTCTGAAAGCCCAAAATATTTACCGCTAGCCGTTACAGAAAAAGTC 1200  
DB 1141 TTTGCTCTTTGGCTCTGAAAGCCCAAAATATTTACCGCTAGCCGTTACAGAAAAAGTC 1200  
QY 1201 TGTGACTACTCAGCCAGACCTCCATTTACCTCCATCCCTGTGGATATTTTAAAGAAAAGC 1260  
DB 1201 TGTGACTACTCAGCCAGACCTCCATTTACCTCCATCCCTGTGGATATTTTAAAGAAAAGC 1260  
QY 1261 CTGACAGTAGTAAAGGCTTTTAAAGAAATAAATGACTGGTTTGGCTTGGAAAGAGG 1320  
DB 1261 CTGACAGTAGTAAAGGCTTTTAAAGAAATAAATGACTGGTTTGGCTTGGAAAGAGG 1320  
QY 1321 GGAAGCAATTCAGATGAGCGGTTTCTGCAATTAACCTGCTATCAGCATCTGCTGCTCTG 1380  
DB 1321 GGAAGCAATTCAGATGAGCGGTTTCTGCAATTAACCTGCTATCAGCATCTGCTGCTCTG 1380  
QY 1381 TGTGCTGCGAGAGCCCTTGGAAAGTTTGTGCTCTTTCAGCTGCTCTCTGAGAGTCCA 1440  
DB 1381 TGTGCTGCGAGAGCCCTTGGAAAGTTTGTGCTCTTTCAGCTGCTCTCTGAGAGTCCA 1440  
QY 1441 CCGCGCTTGGTGGGATGCAAGAGCCCTTGTCTTCTTCTTCTGCGCCCTGCTTCTCTGT 1500  
DB 1441 CCGCGCTTGGTGGGATGCAAGAGCCCTTGTCTTCTTCTTCTTCTGCGCCCTGCTTCTCTGT 1500  
QY 1501 TCTTGGGAGCCCTGCGGCTTGTGCTGCAATCCCTGCGCAGGTCCCTCAGGGTTGATG 1560  
DB 1501 TCTTGGGAGCCCTGCGGCTTGTGCTGCAATCCCTGCGCAGGTCCCTCAGGGTTGATG 1560  
QY 1561 CQTGAGAAAGACTTTTGAAGAGTGTGGGAGAGTGGCTTCTTGGCAGCTCAGACTCT 1620  
DB 1561 CQTGAGAAAGACTTTTGAAGAGTGTGGGAGAGTGGCTTCTTGGCAGCTCAGACTCT 1620  
QY 1621 TGTCTGGGAGGGGAGCTGATCTCAGCTCAGCTAGTACTTGGGACTGAGAGACCTT 1680  
DB 1621 TGTCTGGGAGGGGAGCTGATCTCAGCTCAGCTAGTACTTGGGACTGAGAGACCTT 1680  
QY 1681 TTTGGCTTCTTGGAGCTTGAAGCCCTTCCCATGTCTCCAGCTCTTCTTCTGCTACAA 1740  
DB 1681 TTTGGCTTCTTGGAGCTTGAAGCCCTTCCCATGTCTCCAGCTCTTCTTCTGCTACAA 1740  
QY 1741 AGGGGACTGCTCAGAGTGGCTCAGCTTGTGGTTTGAAGGGGCGCCCGCGGCCCTCC 1800  
DB 1741 AGGGGACTGCTCAGAGTGGCTCAGCTTGTGGTTTGAAGGGGCGCCCGCGGCCCTCC 1800  
QY 1801 ATAAGGATCTCTGGGCTTGAAATTTGCAATCTGCCATTTGGAGATGGAGAGCTCAAA 1860  
DB 1801 ATAAGGATCTCTGGGCTTGAAATTTGCAATCTGCCATTTGGAGATGGAGAGCTCAAA 1860  
QY 1861 TGGAGGAGTCCACGGGAGATGGTCCGAGTGGCTGTGGCCATCCAGCCCTGTG 1920  
DB 1861 TGGAGGAGTCCACGGGAGATGGTCCGAGTGGCTGTGGCCATCCAGCCCTGTG 1920  
QY 1921 GCTTGTCCAGGCTCTGTGTCACCCCTTGTGTCTTCACTCCAGGGGAGAGAGAGCACTG 1980  
DB 1921 GCTTGTCCAGGCTCTGTGTCACCCCTTGTGTCTTCACTCCAGGGGAGAGAGAGCACTG 1980  
QY 1981 CAGTTCCTTTCTTCTGTAGTAACAGTAGTAGTAGAGCTGGGGCTTAACAGGCTAGGCTTT 2040  
DB 1981 CAGTTCCTTTCTTCTGTAGTAACAGTAGTAGTAGAGCTGGGGCTTAACAGGCTAGGCTTT 2040

Qy		G T G T T C G C G A T T T G G T C A G C T T C A C T C G A T C C T C C C T A A A G C A A T O G G G A G G C C C	2100
Db	2041	G T G T T C G C G A T T T G G T C A G C T T C A C T C G A T C C T C C C T A A A G C A A T O G G G A G G C C C	2100
Qy	2101	C A C T A G C C C A G T T T T C A G G A A G T C A A C T G G G A G G T T A G A T T G G G G C C A G G G T C C C A C A G C	2160
Db	2101	C A C T A G C C C A G T T T T C A G G A A G T C A A C T G G G A G G T T A G A T T G G G G C C A G G G T C C C A C A G C	2160
Qy	2161	T A C T G A T G G C C G A G C C A G G T T G A C G T T C C T G G T G T C C A G T C C G G A T C C C A C T T G C A G A T	2220
Db	2161	T A C T G A T G G C C G A G C C A G G T T G A C G T T C C T G G T G T C C A G T C C G G A T C C C A C T T G C A G A T	2220
Qy	2221	C T C A T G C T C T C A G A T A G T G G G A C A A G T T C T T T T G T C A C A G T G C T G C T C T G C C T G A G G	2280
Db	2221	C T C A T G C T C T C A G A T A G T G G G A C A A G T T C T T T T G T C A C A G T G C T G C T C T G C C T G A G G	2280
Qy	2281	C C T C A T T G C T G G G T G G T G T G C T C T G C T G G G A A A A G C T T T T G C G G G G C T T G C T T G G T T A A C	2340
Db	2281	C C T C A T T G C T G G G T G G T G T G C T C T G C T G G G A A A A G C T T T T G C G G G G C T T G C T T G G T T A A C	2340
Qy	2341	C A C A G A G A A G G G G A C T G T T T G G G G T G C T C T C T G C A G C C T C C C G T C T C G G T G G A	2400
Db	2341	C A C A G A G A A G G G G A C T G T T T G G G G T G C T C T C T G C A G C C T C C C G T C T C G G T G G A	2400
Qy	2401	G C A C G G T T A C T G T T C T C T A A T G T T C A T A T A T T T A A A A T G A T T C T T T C T A A A G A T G T A	2460
Db	2401	G C A C G G T T A C T G T T C T C T A A T G T T C A T A T A T T T A A A A T G A T T C T T T C T A A A G A T G T A	2460
Qy	2461	A C C T C C A C A C C T T T C C A G A T T G G G T G A C T C T T T T C T A A A G G T G T G G A G A T A C T G T C	2520
Db	2461	A C C T C C A C A C C T T T C C A G A T T G G G T G A C T C T T T T T C T A A A G G T G T G G A G A T A C T G T C	2520
Qy	2521	G G G T G T G T G G C C C T T G G A T G G G T C A G T G G G T G T C A G A G G T C C T C G G G A G G T G G G C G T	2580
Db	2521	G G G T G T G T G G C C C T T G G A T G G G T C A G T G G G T G T C A G A G G T C C T C G G G A G G T G G G C G T	2580
Qy	2581	T G A C T C A A A G T T G C T C T A C T G C C A T G T T T T T G T A C T G A A A T A A A G C A T A T T T T T G C A C T	2640
Db	2581	T G A C T C A A A G T T G C T C T A C T G C C A T G T T T T T T G T A C C T G A A A T A A A G C A T A T T T T T G C A C T	2640
Qy	2641	T G T T A C T G T A C C A T A G T C G G A C C A G A A G T C T G T A T G T G G A T C T G T C T T G G G T T A G A A	2700
Db	2641	T G T T A C T G T A C C A T A G T C G G A C C A G A A G T C T G T A T G T G G A T C T G T C T T G G G T T A G A A	2700
Qy	2701	T G C A A A T A A A A C T C A C A T T T T G T A A A A A A A A A A A A A A A T A A A A A G A T C G G C C	2754
Db	2701	T G C A A A T A A A A C T C A C A T T T T G T A A A A A A A A A A A A A A A T A A A A A G A T C G G C C	2754

## RESULT 2

RESULTS 2  
ABT07523  
ID ABT07523 standard: cDNA: 2754 BP.

14-NOV-2002 (first entry)

XX	Human breast cancer associated coding sequence	SEO ID NO: 2.
DE		

XX Human; breast specific gene; breast specific protein; breast cancer;  
KW Human; breast specific gene; breast specific protein; breast cancer;  
KW gene therapy; cytostatic; gene; ss.

OS Homo sapiens.

XX PN WO200264611-A1.

XX  
PD  
22-AUG-2002

XX  
PF 12-FEB-2002. 2002WC-IIS004197.

XX  
13-FEB-2001: 2001US-0268292P  
DP

XX  
PA (DTAD-) DTADEXUS INC.

XX Salceda S, Macina RA, Hu P, Recipon H, Karra K, Cafferkey R;  
PI Sun Y, Liu C;  
XX WFI; 2002-657582/70.  
DR  
XX  
XX New breast specific nucleic acids and proteins, useful for identifying,  
PT diagnosing, monitoring, staging, imaging, and treating breast cancer and  
PT non-cancerous disease states in breast tissue, and in gene therapy.  
XX  
XX  
PS Claim 1: Page 148-150: 367pp: English.

Query Match	100.0%;	Score 2754;	DB 6;	Length 2754;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2754.	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;

	Qy	1	GCAGAGCAGCCTCAGCTTGGCAGGTGTCGATGACTGCTGTTCCTTCCCATTTGG	60
	Dd	1	GCAGAAGCAGCCTCAGCTTGGCAGGTGTCGATGACTGCTGTTCCTTCCCATTTGG	60
	Qy	61	GGAAACAGGCCCTCGGTAGCTCGATGATCCCTTTTGATCTTGTGTCACTCCTCGGA	120
	Dd	61	GGAAACAGGCTCCCTCGGTAGCTTCGATGATCCCTTTTGATCTTGTGTCACTCCTCGGA	120
	Qy	121	GAGTGGATTGACGCTCGTGGCCTTAGCTTTTCTAGACAGTGTAAATTGCACTGGGCGAATG	180
	Dd	121	GAGTGGATGACGCTCGTGGCCTTAGCTTTTCTAGACAGTGTAAATTGCACTGGGCGAATG	180
	Qy	181	CCCCAGAGCAGGCGAAGTCTCTAGAGCGGTCTCCCACATGACTGGCTTCACACAGGCA	240
	Dd	181	CCCCAGAGCAGGCGAAGTCTCTAGAGCGGTCTCCCACATGACTGGCTTCACACAGGCA	240
	Qy	241	CTTTCGCTCGGGTTCATGCTCTGTGTTCATCTTACC GGTCGAGGTTTCAGAGTAGGAAAT	300
	Dd	241	CTTTCGCTCGGGTTCGATGCTCTGTGTTCATCTTACC GGTCGAGGTTTCAGAGTAGGAAAT	300
	Qy	301	GTTTGTACCTCTTCTGATTGCCACCTCTCTTCCCATCGCCCTTAGGGACAGGGCTTGAG	360
	Dd	301	GTTTGTACCTCTTCTGATTGCCACCTCTCTTCCCATCGCCCTTAGGGACAGGGCTTGAG	360
	Qy	361	GGCAGTGAAGGCGCTGTGCAGCACCCAGAGCCTCTTGGACCTGCCACAGGGGCACCCCT	420
	Dd	361	GGCAGTGAAGGCGCTGTGCAGCACCCAGAGCCTCTTGGACCTGCCACAGGGGCACCCCT	420
	Qy	421	GAGAGTCTCTGAAAACCCCACTTAGCTTCCAGACCTTCTTGCAAAGCTCCTCTGGCTT	480
	Dd	421	GAGAGTCTCTGAAAACCCCACTTAGCTTCCAGACCTTCTTGCAAAGCTCCTCTGGCTT	480
	Qy	481	TCTCTCCTCCCCAATCTATGGGTACAAGCTAACAGATCTGAGGGCAACTGCTGTGCTAG	540
	Dd	481	TCTCTCCTCCCCAATCTATGGGTACAAGCTAACAGATCTGAGGGCAACTGCTGTGCTAG	540
	Qy	541	TGSCCAGAGGCTGCACCTGCATCCCGGCTCTGCACCTTTAGGGCCCTCTAGAGGCAGTG	600
	Dd	541	TGSCCAGAGGCTGCACCTGCATCCCGGCTCTGCACCTTTAGGGCCCTCTAGAGGCAGTG	600
	Qy	601	TCCTTAGGAAGTAGCTCTGAGCATGGGTTTTCTGTCTCCTGTG CAGGGCAGCTGATGGGA	660
	Dd	601	TCCTTAGGAAGTAGCTCTGAGCATGGGTTTTCTGTCTCCTGTG CAGGGCAGCTGATGGGA	660
	Qy	661	TAAAGTGGGGAAGGACGGTCAGTGTCTTGGGCCCCAGCTGCCAGCCTGGCGATGGGAAA	720
	Dd	661	TAAAGTGGGGAAGGACGGTCAGTGTCTTGGGCCCCAGCTGCCAGCCTGGCGATGGGAAA	720
	Qy	721	CCAAAACCATGTCTCCCCAGCGAAGGCCAGAGTGGGAACTCTCTCTCATGCCCCCTTCTGCT	780



KW cancer monitoring; cancer staging; cancer imaging; lung cancer;  
KW non-cancerous diseases of the lung; transgenic animal; gene; ss.  
XX Homo sapiens.  
XX WO200268633-A2.  
XX 06-SEP-2002.  
XX 21-NOV-2001; 2001WO-US043612.  
XX 22-NOV-2000; 2000US-0252500P.  
XX (DIAD-) DIADEXUS INC.  
XX Macina RA, Recipon H, Chen S, Sun Y, Liu C;  
XX WPI; 2002-713376/77.  
XX New isolated human nucleic acid molecule and polypeptide, useful for  
PT identifying, diagnosing, monitoring, staging, imaging and treating lung  
PT cancer and non-cancerous diseases of the lung.  
XX Claim 1; Page 238-240; 389pp; English.  
XX The invention describes an isolated human nucleic acid (I) encoding any  
CC of 120 10-153 residue amino acid sequences (S1), given in the  
CC specification, comprising any of 164 179-12421 base pair sequences (S2),  
CC given in the specification. The methods and compositions of the present  
CC invention are useful for identifying, diagnosing, monitoring, staging,  
CC imaging and treating lung cancer and non-cancerous diseases of the lung.  
CC They are also used for identifying lung tissue, monitoring and  
CC identifying and/or designing antagonists of the polypeptide of the  
CC invention, gene therapy, production of transgenic animals and production  
CC of engineered lung tissue for treatment and research. This sequence  
CC encodes a lung specific nucleic acid  
XX  
SQ Sequence 2399 BP; 631 A; 653 C; 622 G; 493 T; 0 U; 0 Other;  
Query Match 87.1%; Score 2397.4; DB 6; Length 2399;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
356 TTGAGGCGCAGTAGGCGCTGGTCAGGACCCAGGCTCTCTGGGACCTGCGCAGGGC 415  
2399 TTGAGGCGCAGTAGGCGCTGGTCAGGACCCAGGCTCTCTGGGACCTGCGCAGGGC 2340  
416 ACCCTGAGAGCTCTGAAACCCCACTTAGCTCCAGACCTTCTGCAAAAGCTCCTCCT 475  
2339 ACCCTGAGAGCTCTGAAACCCCACTTAGCTCCAGACCTTCTGCAAAAGCTCCTCCT 2280  
476 GGCCTTCTCCTCCCTCCCAATCTATGGGTCAAGCTAACAGATCTGAGGGCAACTGCTGT 535  
2279 GGCCTTCTCCTCCCTCCCAATCTATGGGTCAAGCTAACAGATCTGAGGGCAACTGCTGT 2220  
536 GCTAGTGCCAGGGCTGACCTGCACTCCCGGCTCTGCCACTTTAGGGCTTCTAGAGG 595  
2219 GCTAGTGCCAGGGCTGACCTGCACTCCCGGCTCTGCCACTTTAGGGCTTCTAGAGG 2160  
596 CAGTGCTCTTAGGAAGTAGCTCTGAGGATGGGTTTCTGCTCTCTGTCAGGGGCGAGCTGA 655  
2159 CAGTGCTCTTAGGAAGTAGCTCTGAGGATGGGTTTCTGCTCTCTGTCAGGGGCGAGCTGA 2100  
656 TGGGATAAGGTGGGAAGGAGCGGTGAGTGCTTTGGGCGCCAGCTGGCCAGCTGGCGATGG 715  
2099 TGGGATAAGGTGGGAAGGAGCGGTGAGTGCTTTGGGCGCCAGCTGGCCAGCTGGCGATGG 2040  
716 GGAACCAAAACATGCTCCCGGAGAGGGCCAGAGTGGGAACCTGCTCATGCCCTTC 775  
2039 GGAACCAAAACATGCTCCCGGAGAGGGCCAGAGTGGGAACCTGCTCATGCCCTTC 1980  
776 GTCCTGAGGAGCCTGAGGTGGGCGAGAGGGGCCAGGGGAAGTTTTCAGGCGCTTCATCAA 835

Db 1979 GTCTGTGAGGAGCCCTGAGTGGGCGAGCAGGGGCCAGGGGAAGTTTTCAGGCGCTTCATCAA 1920  
QY 836 AGAGAAACAATCTCAGCTCGGACCCCTCATCTGTATCAGCACTTACCGGTGTGGA 895  
Db 1919 AGAGAAACAATCTCAGCTCGGACCCCTCATCTGTATCAGCACTTACCGGTGTGGA 1860  
QY 896 CTGCGCTTGTGAGTGTAGCATACGGTGGGCCACCTGGCCCACTGGCTGTATATGCCACTG 955  
Db 1859 CTGCGCTTGTGAGTGTAGCATACGGTGGGCCACCTGGCCCACTGGCTGTATATGCCACTG 1800  
QY 956 ATTTATGATAGGAATATTTCTTTGAAACCAATGAAGTGTGTTCCTCCCATCACAAA 1015  
Db 1799 ATTTATGATAGGAATATTTCTTTGAAACCAATGAAGTGTGTTCCTCCCATCACAAA 1740  
QY 1016 AAAAAAATTTATTTTATGATAGCATCTATTTACCAAAATATGTACTCAATATTGTA 1075  
Db 1739 AAAAAAATTTATTTTATGATAGCATCTATTTACCAAAATATGTACTCAATATTGTA 1680  
QY 1076 TTTTGGATTTTATCAATTTAAAAATTTGGAATTTTGTCTCTTACGCCAACAATA 1135  
Db 1679 TTTTGGATTTTATCAATTTAAAAATTTGGAATTTTGTCTCTTACGCCAACAATA 1620  
QY 1136 TTGATTTTGCCTTGGCTCTGAAAGCCCAAAATATTTACCGTCTAGCCGTTACAGAAA 1195  
Db 1619 TTGATTTTGCCTTGGCTCTGAAAGCCCAAAATATTTACCGTCTAGCCGTTACAGAAA 1560  
QY 1196 AAGTCTGTGACTACTGAGCCAGACCTCCATTTACCTCCCTGTTGGATTTATTTAAAG 1255  
Db 1559 AAGTCTGTGACTACTGAGCCAGACCTCCATTTACCTCCCTGTTGGATTTATTTAAAG 1500  
QY 1256 AAGCTCTGACAGTAAGGCTTTTAAAGAAATAAATGACTTGGTGGCTTGGAA 1315  
Db 1499 AAGGCTCAGACAGTAAGGCTTTTAAAGAAATAAATGACTTGGTGGCTTGGAA 1440  
QY 1316 GCAGGGGAAGCAATTCAGATAGCGGTCTGCAATTAACCTGCCATACAGCATCTCGTG 1375  
Db 1439 GCAGGGGAAGCAATTCAGATAGCGGTCTGCAATTAACCTGCCATACAGCATCTCGTG 1380  
QY 1376 TCCTGTGTGGTGGCGAGCCCTTGGAAAGTCTGTGTTCAGTGTTCAGTGGCTCTCGAGA 1435  
Db 1379 TCCTGTGTGGTGGCGAGCCCTTGGAAAGTCTGTGTTCAGTGTTCAGTGGCTCTCGAGA 1320  
QY 1436 GTCCACCCCGCTCTGTGTGGAAATGCAGAGCCCTTGTCTTCTTTCGCGCTGCTT 1495  
Db 1319 GTCCACCCCGCTCTGTGTGGAAATGCAGAGCCCTTGTCTTCTTTCGCGCTGCTT 1260  
QY 1496 CTTGTTCCTTGGGAGCCCGCTGGGCTTTGGTCTGATCCCTGGCCAGCTCCCTCAGGGT 1555  
Db 1259 CTTGTTCCTTGGGAGCCCGCTGGGCTTTGGTCTGATCCCTGGCCAGCTCCCTCAGGGT 1200  
QY 1556 TGATCGTGGAGAGGACTTTGAGCAGTGGTGGGCGAGAGTGGCTCTTGGCCAGCTCAC 1615  
Db 1199 TGATCGTGGAGAGGACTTTGAGCAGTGGTGGGCGAGAGTGGCTCTTGGCCAGCTCAC 1140  
QY 1616 ACTCTTGTCTGGGAGGGGAGCTGATCTACCTCCACCTAGTACCTTGGGGAAGTGGAG 1675  
Db 1139 ACTCTTGTCTGGGAGGGGAGCTGATCTACCTCCACCTAGTACCTTGGGGAAGTGGAG 1080  
QY 1676 ACTCTTGTCTTCTGAGGCTTGAAGCTCTTCCATGTGTCCAGTGTCTTCTCTGTC 1735  
Db 1079 ACTCTTGTCTTCTGAGGCTTGAAGCTCTTCCATGTGTCCAGTGTCTTCTCTGTC 1020  
QY 1736 TACAAAGGGGAGCTGCTACAGTGGCTCAGCTTGTGTGGTGTGGGGGCGCCCGCCGCG 1795  
Db 1019 TACAAAGGGGAGCTGCTACAGTGGCTCAGCTTGTGTGGTGTGGGGGCGCCCGCCGCG 960  
QY 1796 CTTCCATAAGGGTATCTGGGCTGAGAAATCTGATCTGCAATTCGCAATTCGAGAGTGAAGCC 1855  
Db 959 CTTCCATAAGGGTATCTGGGCTGAGAAATCTGATCTGCAATTCGCAATTCGAGAGTGAAGCC 900  
QY 1856 TCAATTCGAGAGTCCCAAGGAGATGGTCCGAGGTCCGCTGTCAGCCATTCAGCCCC 1915  
Db 899 TCAATTCGAGAGTCCCAAGGAGATGGTCCGAGGTCCGCTGTCGAGCCATTCAGCCCC 840





Db 521 GATGGGGCCAGGGTCCCATGCTGCTGATGGCCCGAGCCAGGTTGAGCTTCTCGGTGT 580

Qy 2197 CCAGTCCGGAT-CCCACTGCGATCTCACTGCTCTCAGATAGTGGGACAAAGTCTTTTG 2255

Db 581 CCAGTCCGGATCCCACTTGCAGATCTCATGCTCTCAGATAGTGGGACAAAGTCTTTTG 640

Qy 2256 TCACAGTGGTGG-CTCTGCTCTGAGGCTCATTTGCTGGCTGGGTGTGCTC 2304

Db 641 TCACAGTGGTGGCTCTCTCTGAGGCTCATTTGCTGGCTGGGTGTGCTC 690

RESULT 5

ID ABV54530 standard; cDNA; 611 BP.

XX AC ABV54530;

XX 17-SEP-2002 (first entry)

XX Human prostate expression marker cDNA 54521.

XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;

XX pharmacogenomic marker; gene; ss.

XX Homo sapiens.

XX WO200160860-A2.

XX 23-AUG-2001.

XX 20-FEB-2001; 2001WO-US005171.

XX 17-FEB-2000; 2000US-0183319P.

XX 16-MAR-2000; 2000US-0189862P.

XX 25-MAY-2000; 2000US-0207454P.

XX 09-JUN-2000; 2000US-0211314P.

XX 18-JUL-2000; 2000US-0219007P.

XX 13-DEC-2000; 2000US-0255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Schlegel R, Endege WO, Monahan JE;

XX WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of

XX prostate cells and correlating with presence of prostate cancer, useful

XX for detecting presence of prostate cancer, stage of prostate cancer.

XX Claim 1; Page 10539-10540; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising

XX a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

XX specification or its complement. (I) is useful for: (a) assessing whether

XX a patient is afflicted with prostate cancer; (b) monitoring the

XX progression of prostate cancer in a patient; (c) assessing the efficacy

XX of a test compound to inhibit prostate cancer in a patient; (d) assessing

XX the efficacy of a therapy for inhibiting prostate cancer in a patient;

XX (e) selecting a composition for inhibiting prostate cancer in a patient;

XX (f) assessing the prostate cell carcinogenic potential of a compound; (g)

XX determining whether prostate cancer has metastasized in a patient; (h)

XX assessing the aggressiveness or indolence of prostate cancer in a patient

XX ; (i) is also useful as a pharmacodynamic or pharmacogenomic marker

XX

SQ Sequence 611 BP; 111 A; 174 C; 164 G; 159 T; 0 U; 3 Other;

Query Match 20.1%; Score 554; DB 5; Length 611;

Best Local Similarity 99.5%; Pred. No. 7,8e-141;

Matches 565; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Qy 1194 AAAAGTCTGCTGACTACTGAGCCAGACCTCCATCTACCTCCATCTGTTGATTATTA 1253

Db 44 AAAAGTCTGCTGACTACTGAGCCAGACCTCCATCTACCTCCATCTGTTGATTATTA 103

Qy 1254 AGAAGCCCTCAGACAGTAAGGCG-TTTTAAAGAAATAAATGACTTTGGTTGGCTTG 1312

Db 104 AGAAGCCCTCAGACAGTAAGGCGTTTAAAGAAATAAATGACTTTGGTTGGCTTG 163

Qy 1313 GAAGCAGGGAAGCATTTCAGATAGCGGTTTCTGCAATTAACCCCTCCTATCAGCATCTC 1372

Db 164 GAAGCAGGGAAGCATTTCAGATAGCGGTTTCTGCAATTAACCCCTCCTATCAGCATCTC 223

Qy 1373 GTGTCTGTGTGGCTGGGAGAGCCGCCCTTGGAGGTTCTGGTGCTTCACTGGCTCCTGC 1432

Db 224 GTGTCTGTGTGGCTGGGAGAGCCGCCCTTGGAGGTTCTGGTGCTTCACTGGCTCCTGC 283

Qy 1433 AGAGTCCACCCCGCTCGTGTGGGAATGACAGAGCCCTTTTGTCTTCTTTCGCCCTG 1492

Db 284 AGAGTCCACCCCGCTCGTGTGGGAATGACAGAGCCCTTTTGTCTTCTTTCGCCCTG 343

Qy 1493 CTTCTGTTCCTGGGAGCCCGCTGGGCTTTGGTCTGATCCCTTGGCAGGTCCCTCAG 1552

Db 344 CTTCTGTTCCTGGGAGCCCGCTGGGCTTTGGTCTGATCCCTTGGCAGGTCCCTCAG 403

Qy 1553 GGTTCATGCGTGGAGAGGACTTTGAGCAGTGGTGGGAGCAGTGGCTCCCTGGCCAGCT 1612

Db 404 GGTTCATGCGTGGAGAGGACTTTGAGCAGTGGTGGGAGCAGTGGCTCCCTGGCCAGCT 463

Qy 1613 CACACTCTTGTCTCTGGGAGGCGCTGATCTCACCTCCACCTAGTACTTGGGAGCTG 1672

Db 464 CACACTCTTGTCTCTGGGAGGCGCTGATCTCACCTCCACCTAGTACTTGGGAGCTG 523

Qy 1673 AGGACCTTTTGGCTTCTCTGGAGCCTGCAAGCCTTCTCCCATGTGTCCAGCTGCTCTCC 1732

Db 524 AGGACCTTTTGGCTTCTCTGGAGCCTGCAAGCCTTCTCCCATGTGTGTGNCAGCTGCTCTCC 583

Qy 1733 TGCTACAAAGGGAGCTGCTCACAGTGGC 1760

Db 584 TGCTACAAAGGGAGCTGCTCACAGTGGC 611

RESULT 6

ABT07522

ID ABT07522 standard; cDNA; 591 BP.

XX AC ABT07522;

XX 14-NOV-2002 (first entry)

XX Human breast cancer associated coding sequence SEQ ID NO: 1.

XX Human; breast specific gene; breast specific protein; breast cancer;

XX gene therapy; cytostatic; gene; ss.

XX Homo sapiens.

XX WO200264611-A1.

XX 22-AUG-2002.

XX 12-FEB-2002; 2002WO-US004197.

XX 13-FEB-2001; 2001US-0268292P.

XX (DIAD-) DIADEXUS INC.

XX Salceda S, Macina RA, Hu P, Recipon H, Karra K, Cafferkey R;

XX Sun Y, Liu C;

XX WPI; 2002-657582/70.

XX New breast specific nucleic acids and proteins, useful for identifying,

XX diagnosing, monitoring, staging, imaging, and treating breast cancer and

XX non-cancerous disease states in breast tissue, and in gene therapy.

XX Claim 1; Page 148; 367pp; English.

XX	The present invention provides human breast specific coding sequences and
CC	proteins. These can be used in the diagnosis and treatment of breast
CC	cancer and non-cancerous diseases of the breast. The present sequence is
CC	a coding sequence of the invention
XX	
SQ	Sequence 591 BP; 106 A; 166 C; 172 G; 147 T; 0 U; 0 Other;
	Query Match            17.6%;    Score 483.8; DB 6; Length 591;
	Best Local Similarity 97.5%; Pred. No. 1.3e-121;
	Matches 555; Conservative 0; Mismatches 7; Indels 7; Gaps 6;
QY	1735 CTACAAAGGGGACTGTCTACAGTGCCTCAGCTTGTTGGTTTCAGGGCGCCCCCGG 1794
Dp	12 CTACAAAGGGGACTGTCTACAGTGCCTCAGCTTGTTGGTTTCAGGGCGCCCCCGG 71
QY	1795 CCCTCATTAAGGGTATCTGGGCCCTGAGAATTCTGCATCTGCATATGGA-GGATGGACAG 1853
Dp	72 CCCTCATTAAGGGTATCTGGGCCCTGAGAATTCTGCATCTGCCAATGTGATGATGACAG 131
QY	1854 CCTCAAAATGGAAG-GAGTCCCACGGGAGATGGTCCGAGGTCC-GGCTGTGGCCATCCAG 1911
Dp	132 CCTCAAAATGGAAGTAGTCTCCACGGGAGATGGTCCGAGGTCTCAGGCTGTGCCATCCAG 191
QY	1912 CCCCTGTGGCTTGTCCAGCCTCTCTGCACCCTCGTGTCTTCACTCCAGGGGACAGACAG 1971
Dp	192 CCCCTGTGGCTTGTCCAGCCTCTCTGCACCCTCGTGTCTTCACTCCAGGGGACAGACAG 251
QY	1972 CAGCCACTGCAGTCTCTTCTTCCTGAG-TAACAGTAGTGATAGCAGCTGGGGCTTAACAG 2030
Dp	252 TAGCCACTGCAGTCTCTTCTTCCTGAGATAACAGTAGTGATAGCAGCTGGGGCTTAACAG 311
QY	2031 GTTAGGCTTTGTGTTCTGCGAATTTGGTTCAGCTTCTCACTCGATCTCTCTTAAGCAATG 2090
Dp	312 GCTAGGCTTTAGTGTCTCTGCGAATTTGGTTCAGCTTCTCACTCGATCTCTCTTAAGCAATG 371
QY	2091 GGAGGCCCCCACTAGCCCCAGTTTTTCAGGAAGTCAACTGGCAGGTTAGATGGGGGCCAG- 2149
Dp	372 GGAGGCCCCCACTAGCCCCAGTTTTTCAGGAAGTCAACTGGCAGGTTAGATGGGGGCCAGA 431
QY	2150 GGTCCACACAGTACTGATGGGCCGACGACGAGTTGAGTT--CTGTGTTCACGTCGCGAT 2207
Dp	432 GGTCCACACAGTACTGATGGGCCGACGACGAGTTGAGTTTCTCTGATGTCTCCAGTCCGAT 491
QY	2208 CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACAAAGTCTCTTTGTGCACAGTCTGTG 2267
Dp	492 CCCACTTCAGATCTCATGCTCTCAGATAGGTGGGACAAAGTCTCTTTGTGCACAGTCTGTG 551
QY	2268 CTCGTCTCAGGCCCTCATCTGCTGCTGG 2296
Dp	552 CTCGTCTCAGGCCCTCATCTGCTGCTGG 580

RESULT 7  
AAS59058  
ID AAS59058 standard: cDNA: 395 BP.

XX AAS59058;

XX	16-JAN-2002	(first entry)
DT		

XX Human cancer related cDNA sequence #176.

Human; ss; lung cancer; adenocarcinoma; breast cancer; colon cancer; prostate cancer; benign prostatic hypertrophy; BHP; cytostatic.

XX  
OS Homo sapiens.

XX  
PN WO200172781-A2.

XX, PD 04-OCT-2001.

XX  
PF  
27-MAR-2001: 2001WO-US009952.

RESULT 8	
ADD49697	
ID	ADD4
XX	
AC	ADD4
XX	
DT	15-0

XX	28-MAR-2000; 2000US-0192583P.
XX	{CHIR } CHIRON CORP.
XX	{HYSE-} HYSEQ INC.
XX	Williams LT, Escobedo J, Innis MA, Garcia PD, Sudduth-Klinger J;
XX	Reinhard C, He Z, Randazzo F, Kennedy GC, Pot D, Kassam A;
XX	Iamson G, Drmanac R, Cskvenjakov R, Dickson M, Drmanac S, Labat I;
XX	Ieshkowitz D, Kita D, Garcia V, Jones LW, Stache-Crain B;
XX	WPI; 2001-626251/72.
XX	New human polynucleotides useful for the treatment and diagnosis of
XX	cancer.
XX	Claim 1; Page 202; 240pp; English.
XX	The invention relates to an isolated polynucleotide comprising a
XX	nucleotide sequence which hybridises to a sequence selected from one of
XX	316 fully defined sequences given in the specification, antisense
XX	molecules complementary to the sequences, the polypeptides encoded by the
XX	sequences and antibodies raised against the proteins. The nucleic acids
XX	are useful for detecting differentially expressed genes which correlate
XX	with a cancerous state of a mammalian cell, i.e. diagnosing cancer
XX	(especially lung cancer, colon cancer, breast cancer, prostate cancer and
XX	adenocarcinoma). Modifying the gene products of the nucleic acids
XX	results in inhibition of tumour growth. The nucleic acids are also useful
XX	in gene mapping and tissue profiling. The present sequence is one of the
XX	316 cancer related cDNA sequences
XX	Sequence 395 BP; 70 A; 111 C; 109 G; 105 T; 0 U; 0 Other;

DT 15-JAN-2004 (first entry)

XX DE Human lung cancer associated cDNA 61594667.  
XX KW Human; ss; lung cancer antigen; cytostatic; lung cancer; gene therapy;  
XX KW vaccine; T-cell; tumour.  
XX OS Homo sapiens.  
XX PN US2003194764-A1.  
XX XX 16-OCT-2003.  
XX PD 04-APR-2002; 2002US-00116712.  
XX PF 05-APR-2001; 2001US-0282289P.  
XX PR 05-OCT-2001; 2001US-0327511P.  
XX PR  
XX XX (CORI-) CORIXA CORP.  
XX PA Bangor CS, Switzer A;  
XX PI WPI; 2003-844452/78.  
XX DR New isolated polypeptides and polynucleotides useful for diagnosing,  
XX PT preventing and treating cancer, particularly lung cancer.  
XX PS Claim 1; SEQ ID NO 429; 250pp; English.  
XX XX  
XX XX The invention relates to an isolated polynucleotide (a) comprising any of  
XX CC the 666 fully defined nucleotide sequences appearing as AD949269.  
XX CC ADD49935, ADD49936 and ADD49938, complements of (a); sequences of at  
XX CC least 20 contiguous residues of (a); sequences that hybridise to (a)  
XX CC under highly stringent conditions; sequences having at least 75 or 90%  
XX CC identity to (a); or degenerate variants of (a). Also included are an  
XX CC isolated polypeptide (b) comprising: sequences encoded by the new  
XX CC polynucleotide; any of the 4 amino acid sequences fully defined in the  
XX CC specification; or sequences having at least 70 or 90% identity to the  
XX CC sequence in (a) or (b), an expression vector comprising the above  
XX CC polynucleotide operably linked to an expression control sequence, a host  
XX CC cell transformed or transfected with the above expression vector, an  
XX CC isolated antibody, or its antigen-binding fragment, that specifically  
XX CC binds to the above polypeptide, an oligonucleotide that hybridises to the  
XX CC above-mentioned nucleotide sequences under highly stringent conditions, a  
XX CC fusion protein comprising at least one polypeptide cited above, detecting  
XX CC the presence of a cancer in a patient (comprising: obtaining a biological  
XX CC sample from the patient; contacting the biological sample with a binding  
XX CC agent that binds to the polypeptide, or with the oligonucleotide cited  
XX CC above; detecting in the sample an amount of the polypeptide that binds to  
XX CC the binding agent, or an amount of a polynucleotide that hybridises to  
XX CC the oligonucleotide; and comparing the amount of polypeptide, or  
XX CC polynucleotide that hybridises to the oligonucleotide, to a predetermined  
XX CC cut-off value and then determining the presence of a cancer in the  
XX CC patient), a method for stimulating and/or expanding T-cells specific for  
XX CC a tumour protein (comprising contacting T-cells with the above  
XX CC polypeptide, polynucleotide or antigen-presenting cells that express the  
XX CC polynucleotide, under conditions and for a time sufficient to permit the  
XX CC stimulation and/or expansion of T-cells), an isolated T-cell population  
XX CC comprising T-cells prepared by the method, a composition comprising a  
XX CC first component selected from physiological carriers and  
XX CC immunostimulants, and a second component selected from the above  
XX CC polypeptide, polynucleotide, antibody, fusion protein, T-cell population  
XX CC and antigen-presenting cells that express the above polypeptide,  
XX CC stimulating an immune response in a patient (comprising administering to  
XX CC the patient the above composition) treating lung cancer in a patient  
XX CC (comprising administering to the patient the above composition and a  
XX CC diagnostic kit (comprising: at least one oligonucleotide cited above; or  
XX CC at least one antibody cited above and a detection reagent, where the  
XX CC detection reagent comprises a reporter group). The composition and  
XX CC methods are useful in diagnosing, preventing and treating cancer,  
XX CC particularly lung cancer. The present sequence is a lung cancer-  
XX CC associated antigen cDNA of the invention.  
XX XX Sequence 295 BP; 52 A; 88 C; 88 G; 67 T; 0 U; 0 Other;  
SQ

Query Match 10.7%; Score 295; DB 10; Length 295;  
Best Local Similarity 100.0%; Pred. No. 4.7e-70;  
Matches 295; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1723 CTGCTCTTCTGCTACAAAGGGGACTGCTCAAGTGGGCTCAGCTTGGTGGTTTGAGGG 1782  
DB 1 CTGCTCTTCTGCTACAAAGGGGACTGCTCAAGTGGGCTCAGCTTGGTGGTTTGAGGG 60  
QY 1783 GCGGCCCCCGGCGCTCCATAGGGGTATCTCTGGGCTGAGAAATTCGATCTGCCATTGG 1842  
DB 61 GCGGCCCCCGGCGCTCCATAGGGGTATCTCTGGGCTGAGAAATTCGATCTGCCATTGG 120  
QY 1843 AGGATGGACAGCCTCAAAATGGAAGGAGTCCCAACGGAGATGGTCCGAGGTCGGCTGTG 1902  
DB 121 AGGATGGACAGCCTCAAAATGGAAGGAGTCCCAACGGAGATGGTCCGAGGTCGGCTGTG 180  
QY 1903 GCGATCCAGCCCGCTGTGGCTTCTCAGGCTCTGCAACCCCTGCTGCTTCACTCCAGG 1962  
DB 181 GCGATCCAGCCCGCTGTGGCTTCTCAGGCTCTGCAACCCCTGCTGCTTCACTCCAGG 240  
QY 1963 GGCAGACAGCAGCCACTGCAGTTCCTTTCTCGTAGTAACAGTAGTAGATAGCAG 2017  
DB 241 GGCAGACAGCAGCCACTGCAGTTCCTTTCTCGTAGTAACAGTAGTAGATAGCAG 295

RESULT 9  
ABX92048/c  
ID ABX92048 standard; cDNA; 251 BP.  
XX AC ABX92048;  
XX DT 08-MAY-2003 (first entry)  
XX DE Lung specific nucleic acid (LSNA) #90.  
XX KW Human; gene therapy; vaccine; lung specific antigen; cancer diagnosis;  
XX KW cancer monitoring; cancer staging; cancer imaging; lung cancer;  
XX KW non-cancerous diseases of the lung; transgenic animal; gene; ss.  
XX OS Homo sapiens.  
XX PN WO200268633-A2.  
XX PD 06-SEP-2002.  
XX PF 21-NOV-2001; 2001WO-US043612.  
XX PR 22-NOV-2000; 2000US-0252500P.  
XX XX (DIAD-) DIADEXUS INC.  
XX PA Macina RA, Recipon H, Chen S, Sun Y, Liu C;  
XX PI WPI; 2002-713376/77.  
XX DR New isolated human nucleic acid molecule and polypeptide, useful for  
XX PT identifying, diagnosing, monitoring, staging, imaging and treating lung  
XX PT cancer and non-cancerous diseases of the lung.  
XX PS Claim 1; Page 238; 389pp; English.  
XX XX The invention describes an isolated human nucleic acid (I) encoding any  
XX CC of 120 10-1533 residue amino acid sequences (S1), given in the  
XX CC specification, comprising any of 164 179-12421 base pair sequences (S2),  
XX CC given in the specification. The methods and compositions of the present  
XX CC invention are useful for identifying, diagnosing, monitoring, staging,  
XX CC imaging and treating lung cancer and non-cancerous diseases of the lung.  
XX CC They are also used for identifying lung tissue, monitoring and  
XX CC identifying and/or designing antagonists of the polypeptide of the  
XX CC invention, gene therapy, production of transgenic animals and production  
XX CC of engineered lung tissue for treatment and research. This sequence  
XX CC encodes a lung specific nucleic acid

XX SQ Sequence 251 BP; 79 A; 75 C; 54 G; 43 T; 0 U; 0 Other;  
 Query Match 8.1%; Score 224.4; DB 6; Length 251;  
 Best Local Similarity 98.8%; Pred. No. 9.4e-51;  
 Matches 237; Conservative 0; Mismatches 1; Indels 2; Gaps 1;  
 2381 CCTCCCGTGTGGTGAAGCAGGTTACTGTGTTCTCTAATGTTTAAAT 2440  
 DB 251 CCTCCCGTGTGGTGAAGCAGGTTACTGTGTTCTCTAATGTTTAAAT 192  
 2441 GATTTCCTTCTAAGATGTAACCTCCACACCTTTCTCCAGATTGGGTGACTTTTCTAA 2500  
 DB 191 GATTTCCTTCTAAGATGTAACCTCCACACCTTTCTCCAGATTGGGTGACTTTTCTAA 132  
 2501 AGTGGTGGGATATCTGTGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGAGA 2560  
 DB 131 AGTGGTGGGATATCTGTGGGGTGGTGGCCCTTGGATGGTCAAGTGGGTGAGA 72  
 2561 GGTCTGGGAGGT--GGCGGTGAGCTCAAGTGTCTTACTCCATGTTTGTACCT 2618  
 DB 71 GGTCTGGGAGGTGGCGGTGAGCTCAAGTGTCTTACTCCATGTTTGTACCT 12  
 RESULT 10  
 ID AAZ35057 standard; DNA; 736 BP.  
 XX AAZ35057;  
 DT 28-FEB-2000 (first entry)  
 DE Pluripotent cell marker gene L17 DD-PCR product.  
 XX Cell differentiation; cell proliferation; cell maintenance; human;  
 KW ectoderm-like cell; embryonic stem cell; pluripotent cell; gene therapy;  
 KW cell therapy; tissue transplant; organ transplant; xenotransplant;  
 KW allotransplant; concomitant transplantation; transgenic animal; L17; ds.  
 XX Homo sapiens.  
 XX WO9953021-A1.  
 XX 21-OCT-1999.  
 XX 09-APR-1999; 99WO-AU000265.  
 XX 09-APR-1998; 98AU-00002912.  
 XX 23-SEP-1998; 98AU-00006097.  
 XX (BRES-) BRESAGEN LTD.  
 XX Bettess MD, Rathjen PD, Rathjen J;  
 XX WPI; 2000-061970/05.  
 XX New isolated biologically active factor capable of influencing  
 PT differentiation, proliferation or maintenance of pluripotent cells.  
 XX Example 1; Fig 3A; 189pp; English.  
 XX This is the nucleotide sequence of a novel partial cDNA, termed L17, that  
 CC is differentially expressed between embryonic stem (ES) and primitive  
 CC ectoderm-like (EPL) cells. Novel L17, K7 (see AAZ35058) and Psci (see  
 CC AAZ35059) clones were identified by differential display PCR using RNA  
 CC isolated from ES and EPL cells that had been cultured in MED17+Lif for 2,  
 CC 4, 6 and 8 days. L17 was highly expressed in ES cells but down regulated  
 CC rapidly with EPL formation and maintenance in culture. The expression of  
 CC novel pluripotent cell marker genes supports the relationship between EPL  
 CC cells and early primitive ectoderm. The invention relates to a novel  
 CC biologically active factor capable of influencing the differentiation,  
 CC proliferation or maintenance of pluripotent cells. Methods are provided  
 CC for producing partially or terminally differentiated cells from

CC pluripotent cells. The pluripotent cells and partially or terminally  
 CC differentiated cells can be used in allo-, concomitant- or xeno-  
 CC transplantation, cell therapy, tissue and organ augmentation or  
 CC replacement, and gene therapy. They can also be used for producing  
 CC chimeric or transgenic animals  
 XX Sequence 736 BP; 202 A; 147 C; 174 G; 213 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 76.6; DB 3; Length 736;  
 Best Local Similarity 68.5%; Pred. No. 5.4e-10;  
 Matches 191; Conservative 0; Mismatches 59; Indels 29; Gaps 5;  
 QY 2471 CTTCCTCCAGATGGGTGACTCTTTCTAAAGGTGGTGGAGTATCTGTGGGGTGGTGT 2530  
 DB 483 CTTCCTCCAGTGGGTGATCTTTCTAAAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 538  
 QY 2531 GGCCCTTGGATGGGTGAGGTGGGTGTGAGAGGTC-CTGGGGAGGTGGGGTGTGAGCTCAA 2589  
 DB 539 ----TCCAGACTGGTCAAAATATGTGTGGCAGGTCAAGGAAAGGAGTCAATGGAAACCCA 594  
 QY 2590 AGTTGCTCTACTGCCA---TGTCTTTGTACCTGAAATAAAGCATATTTGCACTTGTAC 2646  
 DB 595 CGTTGTCAATATGCCATGTTGTTTGTACCTGAAATAAAGCATATTTGCACTTGTAAA 654  
 QY 2647 TGTACCATAGTCGGACGAGAGTCTGTATGTGGGATCTGTCTTGGGTAGAATGCAAA 2706  
 DB 655 TGAA-----AAATCTGTATGTGGGTCTGTGC-TGGGTCAAGATGCAAA 697  
 QY 2707 TAAACTCATTTGTAAGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2745  
 DB 698 TAAACCAATTTGTACTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 736  
 RESULT 11  
 AAK90877/c  
 ID AAK90877 standard; DNA; 32038 BP.  
 XX AAK90877;  
 XX 05-NOV-2001 (first entry)  
 XX Human digestive system antigen genomic sequence SEQ ID NO: 4453.  
 KW Human; digestive system antigen; gene therapy; cancer; appendicitis;  
 KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;  
 KW digestive system disorder; Meckel's diverticulum; ds.  
 XX Homo sapiens.  
 XX WO200155314-A2.  
 XX 02-AUG-2001.  
 XX 17-JAN-2001; 2001WO-US001324.  
 XX 31-JAN-2000; 2000US-0179065P.  
 XX 04-FEB-2000; 2000US-0180628P.  
 XX 24-FEB-2000; 2000US-0184664P.  
 XX 02-MAR-2000; 2000US-0186350P.  
 XX 16-MAR-2000; 2000US-0189874P.  
 XX 17-MAR-2000; 2000US-0190076P.  
 XX 18-APR-2000; 2000US-0198123P.  
 XX 19-MAY-2000; 2000US-0205515P.  
 XX 07-JUN-2000; 2000US-0209467P.  
 XX 28-JUN-2000; 2000US-0214886P.  
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PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-502630/55.  
XX DR Polynucleotides encoding digestive system antigens, useful for  
XX PT diagnosing, treating, preventing and/or prognosing disorders of the  
XX PT digestive system, particularly cancer and cancer metastases.  
XX  
XX PS Disclosure; SEQ ID NO 4453; 986pp; English.  
XX  
XX CC The present invention provides the protein and coding sequences of a  
XX CC number of human digestive system antigens. These can be used in the  
XX CC diagnosis, treatment and prevention of digestive system disorders,  
XX CC including cancer, Meckel's diverticulum, bacterial or parasitic  
XX CC infections, appendicitis, Hirschsprung's disease, chronic colitis or  
XX CC ulcerative colitis. The present sequence is a genomic DNA fragment  
XX CC encoding a digestive system antigen of the invention  
XX  
XX SQ Sequence 32038 BP; 9776 A; 5476 C; 5963 G; 10823 T; 0 U; 0 Other;  
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XX AC AAK89980;
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DE Human; digestive system antigen; gene therapy; cancer; appendicitis;
KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
KW digestive system disorder; Meckel's diverticulum; ds.
XX Homo sapiens.
XX WO200155314-A2.
XX PD 02-AUG-2001.
XX PD 17-JAN-2001; 2001WO-US001324.
XX 31-JAN-2000; 2000US-0179065P.
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XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-502630/55.
XX
XX Polynucleotides encoding digestive system antigens, useful for
XX diagnosing, treating, preventing and/or prognosing disorders of the
XX digestive system, particularly cancer and cancer metastases.
XX
XX Disclosure; SEQ ID NO 3556; 986bp; English.
XX
XX The present invention provides the protein and coding sequences of a
XX number of human digestive system antigens. These can be used in the
XX diagnosis, treatment and prevention of digestive system disorders,
XX including cancer, Meckel's diverticulum, bacterial or parasitic
XX infections, appendicitis, Hirschsprung's disease, chronic colitis or
XX ulcerative colitis. The present sequence is a genomic DNA fragment
XX encoding a digestive system antigen of the invention
XX
XX Sequence 32038 BP; 9776 A; 5476 C; 5963 G; 10823 T; 0 U; 0 Other;
XX
XX Query Match 2.7%; Score 75; DB 4; Length 32038;
XX Best Local Similarity 65.9%; Pred. No. 1.3e-08;
XX Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
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QY 1126 -----CAACATATATTGTTTTGCTCTTGGCTCTGGAAGCCCAAAATATTACCGT 1178
Db 28759 GTATCTACATCAACATCTCAGTTTTTACCTCTGACCCACAAAGCCTAAATATTACTAT 28700
QY 1179 CTAGCCCTTACAGAAAAAGTCTGCTGACTACTGAGCCAGACC 1221
Db 28699 CTGGCCCTTATAGAAAAAGTTTCTTGACCTCTGCCCTAGAGC 28657
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XX Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;
XX chicken; sheep; immunosuppressive; antiarthritic; vasotropic;
XX antirheumatic; antiproliferative; cytostatic; cardiant; neuroprotective;
XX cerebroprotective; nontropic; antibacterial; virucide; fungicide; cancer;
XX hyperthymological; vulnery; gene therapy; autoimmune disease; neoplasia;
XX hyperproliferative disorder; breast; liver; cardiovascular disorder; da;
XX cerebrovascular disorder; nervous system disorder; bacterial infection;
XX fungal infection; viral infection; ocular disorder; endocrine disorder;
XX gastrointestinal disorder; renal disorder; respiratory disorder;
XX wound healing; skin aging; organ transplantation; food preservative;
XX tissue regeneration; anti-infectivity; food additive.
XX
XX Homo sapiens.
XX
XX WO200155303-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001301.
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 (HUMA-) HUMAN GENOME SCI INC.  
 Rosen CA, Ruben SM, Barash SC;  
 WPI; 2003-695900/66.  
 Novel isolated lung antigen polypeptides useful for treating, preventing,  
 diagnosing acute myelogenous leukemias, adenocarcinoma, thrombocytopenia,  
 Von Willebrand's disease.  
 Disclosure; SEQ ID NO 292; 179pp; English.  
 The invention relates to an isolated lung antigen polypeptide sequence or  
 encoded sequence in a cDNA clone. The polypeptide and its polynucleotide  
 are useful for treating, preventing, diagnosing and/or prognosing  
 diseases and/or disorders such as pathological cell proliferative  
 neoplasias e.g. acute myelogenous leukaemias, adenocarcinoma; respiratory  
 disorders such as chronic rhinitis, sinusitis; immunodeficiencies such as  
 X-linked agammaglobulinemia, X-linked infantile agammaglobulinemia;  
 inflammatory disorders such as adenitis, alveolitis; immune complex  
 diseases such as serum sickness, polyarteritis nodosa; bleeding disorders  
 such as thrombocytopenia, Von Willebrand's disease; acquired platelet  
 dysfunction such as kidney failure, multiple myeloma; disorders  
 associated with macrophage numbers and/or macrophage function such as  
 Gaucher's disease, Niemann-Pick disease; tumours such as colon cancer,  
 pancreatic cancer; renal disorders such as kidney failure, nephritis;  
 bone disorders such as Albers-Schönberg disease, bowlegs; muscular  
 disorders such as Becker's muscular dystrophy, Duchenne's muscular  
 dystrophy; nervous disorders such as ischaemic lesions, traumatic lesions  
 ; endocrine disorders such as Cushing's syndrome, corticosteroid  
 Query Match 2.7%; Score 75; DB 10; Length 32038;  
 Best Local Similarity 65.9%; Pred. No. 1.3e-08;  
 Matches 147; Conservative 0; Mismatches 60; Indels 16; Gaps 2;  
 QY 1013 AAAAAAATCTTATTTTAGTAGACATGTAITTTACAAAATATGTTCTCAATTATT 1072  
 DB AATATTTATTTCTTTTCATTTAGTAACCCGTAITTTACAAAATATGTTCTCAATTATT 28818  
 QY 1073 GTAATTTGATTTATCAATTTAAAAATGTGGAATTTGTTGCTCTACGC----- 1125  
 BB G--TTTGAATTTGTCATAAATAATTTTCGTGCAATTTTATTTCTCTCTAGTTATTAA 28760

QY 1126 -----CAACATAATATGATTTTGGCTCTTGGCTCTGAAAGCCCAAAATATTACCGT 1178  
 DB GTATCTACATAACAATCTCAGTTTACCTCTTAGCCCAAGCTCAAAATATTACTAT 28700  
 QY 1179 CTAGCCCGTTACAGAAAAGTCTGCTGACTACTAGAGCCAGACC 1221  
 DB CTGCCCCCTTTATAGAAAAGTTCTGACCTCTGCCCCCTAGAGC 28657  
 RESULT 15  
 ADJ12644  
 ID ADJ12644 standard; DNA; 32844 BP.  
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 AC ADJ12644;  
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 DT 20-MAY-2004 (first entry)  
 XX  
 DE DNA fragment of a BAC clone that encodes a human secreted protein Seq498.  
 XX  
 KW human; secreted; cancer; haematopoietic disease; anaemia;  
 KW multiple myeloma; reproductive system disorder; prostatitis;  
 KW inguinal hernia; musculoskeletal disease; systemic lupus erythematosus;  
 KW gout; cardiovascular disease; arrhythmia; hypernatraemia; fetal disease;  
 KW fetal alcohol syndrome; Down's syndrome; excretory disease;  
 KW urinary incontinence; renal disorder; neural; sensory disease;  
 KW Alzheimer's disease; meningitis; respiratory disease; emphysema;  
 KW occupational lung disease; endocrine disease; diabetes;  
 KW glomerulonephritis; digestive disease; portal hypertension;  
 KW irritable bowel syndrome; epithelial disease; scleroderma;  
 KW epidermolysis bullosa; cytostatic; antineoplastic; antiarthritic;  
 KW antipsoriatic; anti-HIV; immunosuppressive; antiinflammatory;  
 KW antiparasitic; antibacterial; osteopathic; dermatological; antitumor;  
 KW immunomodulator; antiarrhythmic; cardiac; nootropic; antileptic;  
 KW nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;  
 KW antidiabetic; anabolic; hypertensive; vulnary; ds.  
 XX  
 OS Homo sapiens.  
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 PN US2004010132-A1.  
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 PD 15-JAN-2004.  
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 PF 30-OCT-2001; 2001US-00984429.  
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 PR 09-OCT-1997; 97US-0061463P.  
 PR 09-OCT-1997; 97US-0061527P.  
 PR 09-OCT-1997; 97US-0061529P.  
 PR 09-OCT-1997; 97US-0061532P.  
 PR 09-OCT-1997; 97US-0061536P.  
 PR 09-OCT-1997; 97US-0071498P.  
 PR 09-OCT-1998; 98WO-00201142.  
 PR 08-APR-1999; 99US-00288143.  
 PR 01-NOV-2000; 2000US-0244591P.  
 XX  
 (ROSE/) ROSEN C A.  
 PA (BREW/) BREWER L A.  
 PA (DUAN/) DUAN R D.  
 PA (RUBE/) RUBEN S M.  
 PA (FLOR/) FLORENCE K A.  
 PA (GREE/) GREENE J M.  
 PA (YOUN/) YOUNG P E.  
 PA (FERE/) FERRIE A M.  
 PA (YUGG/) YU G.  
 PA (EBNE/) EBNER R.  
 PA (OLSE/) OLSEN H.  
 XX  
 PI Rosen CA, Brewer LA, Duan RD, Ruben SM, Florence KA, Greene JM;  
 PI Young PE, Ferrie AM, Yu G, Florence C, Ebner R, Olsen H;  
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 XX WPI; 2004-090518/09.  
 XX  
 PT New isolated nucleic acids and polypeptides, useful for diagnosing,

PT treating, preventing or ameliorating diseases or disorders e.g. cancer,  
PT anemia, arthritis, asthma, inflammatory bowel disease or Alzheimer's  
PT disease.

PS Disclosure; SEQ ID NO 498; 286pp; English.

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This invention relates to novel polynucleotides encoding human secreted proteins. Specifically, it refers to the vectors, host cells, recombinant and synthetic methods for producing human polynucleotides, polypeptides and antibodies. Furthermore, it relates to screening methods to identify agonists and antagonists that can be used to inhibit or enhance the production and function of the secreted proteins. The present invention describes these compositions as useful for diagnosing, treating or preventing disorders such as cancer, haematopoietic diseases including anaemia and multiple myeloma, reproductive system disorders including prostaticitis and inguinal hernia, musculoskeletal diseases including systemic lupus erythematosus and gout, cardiovascular disease including arrhythmia and hypernatraemia, mixed fetal diseases including fetal alcohol syndrome and Down's syndrome, excretory diseases including urinary incontinence and renal disorders, neural or sensory disease including Alzheimer's disease and meningitis, respiratory disease including emphysema and occupational lung disease, endocrine diseases including diabetes and glomerulonephritis, digestive diseases including portal hypertension and irritable bowel syndrome and connective tissue or epithelial diseases including scleroderma and epidermolysis bullosa. As such, there are various activities such as cytostatic, antianemic, antiarthritic, antiaesthetic, anti-HIV, immunosuppressive, antiinflammatory, antipsoriatic, antibacterial, osteoprotic, dermatological, antigout, immunomodulator, antiarrhythmic, cardiant, nontropic, antilipemic, nephrotropic, uteropathic, neuroprotective, antiparkinsonian, tranquilizer, antidiabetic, anabolic, hypertensive and vulnary. This polynucleotide is a DNA fragment of a BAC clone that encodes a human secreted protein of the invention. NOTE: This sequence does not appear in the printed specification but has been obtained in electronic format from the US patent office at the following web site [www.seqdata.uspto.gov/sequence.html](http://www.seqdata.uspto.gov/sequence.html). Document ID: 20040010132.

Sequence 32844 BP; 11125 A; 6089 C; 5587 G; 10043 T; 0 U; 0 Other;

Query Match 2.7%; Score 75; DB 12; Length 32844;

Best Local Similarity 65.9%; Pred. No. 1.3e-08;

Sequence	Matches	Conservative	Mismatches	Indels	Gaps
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QV 1013 AAAAAAAAAATCTTATTTTAGTAGACATGTATTTACCAAAAATATGTACTCAATTATT 1072

3968 AAATAATTTAAATCTTTTCATTAGTAAACCGGTATTCACAAAAAATGTTTAAATATT 4027

QV 1073 GTATTTGGATTTTATCAATTAAAAATTGCGAAATTGTTTGCTCTTACGC----- 1125

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[illegible]

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2004, 08:42:07 ; Search time 11585 Seconds  
(without alignments)  
11241.764 Million cell updates/sec

Title: US-09-989-920-100  
Perfect score: 2754  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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9: gb.pr.\*

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12: gb.sy.\*

13: gb.un.\*

14: gb.vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
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C 2	2718.4	98.7	211305	9	AC079988 Homo sapi
C 3	2718.4	98.7	225203	2	AC140107 Homo sapi
C 4	2397.4	87.1	2399	6	AX535064 Sequence
C 5	1747.6	63.5	1853	6	AR204690 Sequence
C 6	820.6	29.8	88036	2	AC133359 Homo sapi
C 7	803	29.2	88036	2	AC133359 Homo sapi
C 8	612.4	22.2	960	6	AX535072 Sequence
C 9	554	20.1	611	6	CQ522682 Sequence
C 10	357.4	13.0	395	6	AX262096 Sequence
C 11	261.2	9.5	406	11	G38425 SHGC-58087
C 12	261.2	8.1	251	6	AX535063 Sequence
C 13	87.6	3.2	190379	2	AC134136 Rattus no
C 14	87.6	3.2	231580	2	AC136817 Rattus no
C 15	81	2.9	182643	9	CNS01DT7 Human chr
C 16	80.6	2.9	184043	2	AC090296 Homo sapi
C 17	80.6	2.9	188789	2	AP001446 Homo sapi
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C 21	77	2.8	194955	9	AC084198 Homo sapi
C 22	76.6	2.8	736	6	BD274467 Cell diff
C 23	76.2	2.8	155301	9	AC041040 Homo sapi
C 24	75.4	2.7	151887	2	AL356979 Homo sapi
C 25	75.4	2.7	162529	9	AC092813 Homo sapi
C 26	75.4	2.7	202402	2	AC012517 Homo sapi
C 27	75	2.7	65543	2	AC027356 Homo sapi
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C 29	74.2	2.7	181504	2	AL150610 Gallithei
C 30	73.2	2.7	125066	9	AC074286 Homo sapi
C 31	72.4	2.6	137858	9	AL049785 Human DNA
C 32	72.4	2.6	202157	4	AC124907 Equus cab
C 33	71.6	2.6	56748	9	AL356852 Human DNA
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C 35	71.4	2.6	134942	9	AC008860 Homo sapi
C 36	70.8	2.6	123395	9	HS889N15 Human DNA
C 37	70.2	2.5	195634	2	AC150472 Papio anu
C 38	70	2.5	170895	9	AC016134 Homo sapi
C 39	69.8	2.5	98951	2	AC090069 Homo sapi
C 40	69.8	2.5	208220	9	AC009107 Homo sapi
C 41	68.8	2.5	34744	9	AL589842 Human DNA
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#### ALIGNMENTS

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LOCUS AX535073 2754 bp DNA linear PAT 22-NOV-2002  
DEFINITION Sequence 100 from Patent WO2068633.  
ACCESSION AX535073  
VERSION AX535073.1 GI:25261753  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Macina R.A., Recipon, H., Chen, S.Y., Sun, Y. and Liu, C.  
TITLE Compositions and methods relating to lung specific genes and proteins  
JOURNAL Patent: WO 02068633-A 100 06-SEP-2002;  
Diadexus, Inc. (US)  
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source  
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Location/Qualifiers  
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ORIGIN	Query Match	Best Local Similarity	Matches	Score	DB	Length	Indels	Gaps
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Db	1	GCACAGACAGCTCAGCTTGCAGAGGTGAGAGTACTGCTGCTTCCCTTCGCAATTGG	60					
Qy	61	GGAAACAGGCTCCCTCGGTAGCTCGATGATCCTCTTTGATCTTGTGTGACCTCCTCGA	120					
Db	61	GGAAACAGGCTCCCTCGGTAGCTCGATGATCCTCTTTGATCTTGTGTGACCTCCTGGA	120					
Qy	121	GAGTGATGACCTGGTGGCCCTTAGCTTTCTAGACAGTGTAAATTCACCTGGGCGATGT	180					
Db	121	GAGTGATGACCTGGTGGCCCTTAGCTTTCTAGACAGTGTAAATTCACCTGGGCGATGT	180					
Qy	181	CCCCAGACAGGCGAAGGTCTCTAGAGGGGCTCCACATGACGTGCTTCACAGGCA	240					

Db	181	CCCAGAGCAGGGCAAGGCTCTATAGACGGGGTCTCCACATGACTGGCTTCACACAGGCA	240
Qy	241	CTTCCGCTCGGGTTGCATAGCTCTGTGTCACTTACCGGTCCAGGGTTGCAGGTAGGAAAT	300
Db	241	CTTCCGCTCGGGTTGCATGCTGTGTCACTTACCGGTCCAGGGTTGCAGGTAGGAAAT	300
Qy	301	GTTTGTACCTCTCTCATTTAGCCACCTCTTTGCCATGCGCCCTTAGGACAGGSCCTTGAG	360
Db	301	GTTTGTACCTCTCTCATTTAGCCACCTCTTTGCCATGCGCCCTTAGGACAGGSCCTTGAG	360
Qy	361	GGCCAGTGAGGCGCTGTGTCAAGCACCCACGAGCCCTCTTTGGGACCTGCCACAGGGCACCCCT	420
Db	361	GGCCAGTGAGGCGCTGTGTCAAGCACCCACGAGCCCTCTTTGGGACCTGCCACAGGGCACCCCT	420
Qy	421	GAGAGCTCTGAACACCCGCACTTAGCTTCAGACCTTTCTGC AAAAGCTCCTCTGGCTT	480
Db	421	GAGAGCTCTGAACACCCGCACTTAGCTTCAGACCTTTCTGC AAAAGCTCCTCTGGCTT	480
Qy	481	TCCTCCCTCCCCAAATCTATGGGTCAAGCTTAACAGATCTGAGGGCAACTGCTGTGTAG	540
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Qy	541	TGGCCAGGGCTGCACCTTGCCATCCCGGCTCTGCACTTTAGGSCCTTTCTAGAGGCAAGTG	600
Db	541	TGGCCAGGGCTGCACCTTGCCATCCCGGCTCTGCACTTTAGGSCCTTTCTAGAGGCAAGTG	600
Qy	601	TCCTTAGGAAGTACTCTGAGGCATGGTTTCTGCTCTCTGTGCAGGCAAGCTGATGGGA	660
Db	601	TCCTTAGGAAGTACTCTGAGGCATGGTTTCTGCTCTCTGTGCAGGCAAGCTGATGGGA	660
Qy	661	TAAGGTGGGAAAGACGGTCAGTCTTTGGGCCCCAGCTGGCCAGCTTGGGCATGGGGAAA	720
Db	661	TAAGGTGGGAAAGACGGTCAGTCTTTGGGCCCCAGCTGGCCAGCTTGGGCATGGGGAAA	720
Qy	721	CCAAACCATGTCCCCCAGGAGGGCCAGAGTGGGAACCTGCTCCTATGCCCTTCGTCCT	780
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Qy	781	GAGGAGCCCTGAGGTGGGCACAGGGGCCAGGGGAAAGTTTTCAGGSCCTTCATCAAAAGAGA	840
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Qy	901	CTTCTCAGCTAGCATAGGTGGGGCCCACTGGGCCACTGGCTGTTTATGCCACTGATTTA	960
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Qy	1081	GATTTTATCAATTTAAAAATTTGTGAAAATTTTGTCTTCTTACGCCCAACATAATTGAT	1140
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Qy	1201	TGCTGACTACTGAGCCAGACCTCCATACCTCCACTCCTGTGTGATTAATTTAAAGAAAGC	1260
Db	1201	TGCTGACTACTGAGCCAGACCTCCATACCTCCACTCCTGTGTGATTAATTTAAAGAAAGC	1260
Qy	1261	CTCAGACAGTAAAGGCTTTTTTAAAGATAAATTAAGATGACTTGGTTTGGCTTGGAGCAGG	1320
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1321	QY	GAAGCATTCAGATGAGCGGTTTCTGCATTAACCTGCTATACGCACTCGTGCCTG	1380
1321	DB	GAAGCATTCAGATGAGCGGTTTCTGCATTAACCTGCTATACGCACTCGTGCCTG	1380
1381	QY	TGTGGCTGCGAGACCCCTTGGAAAGTTCTGGTGTTCAGCTGGCTCTCTGAGAGTCCA	1440
1381	DB	TGTGGCTGCGAGACCCCTTGGAAAGTTCTGGTGTTCAGCTGGCTCTCTGAGAGTCCA	1440
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1501	DB	TCTTGGGACCCGCTGGGCTTTGGTGTGCACTCCCTGSCCAGGTCCCTCAGGGTTGATG	1560
1561	QY	CGTGAGAGGACTTTGACAGTGGTGGCAGACAGTGGGCTCCTGSCCAGCTCACACTCT	1620
1561	DB	CGTGAGAGGACTTTGACAGTGGTGGCAGACAGTGGGCTCCTGSCCAGCTCACACTCT	1620
1621	QY	TGTCTTGGAGGGCAGCCTGATCTCACCTCCACCTAGTACCTTGGGGACTGAGGACCTT	1680
1621	DB	TGTCTTGGAGGGCAGCCTGATCTCACCTCCACCTAGTACCTTGGGGACTGAGGACCTT	1680
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1681	DB	TTGGCTTCTCTGAGGCTGCAAGCTCTTCCCATGTGTCACAGTGTCCAGTGTCTCTCTGCTACAA	1740
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2221	DB	CTCATGCTCTCAGATAGGTGGGACAAGTTCTTTTGTCAAGTGTCTGGCTGTGCTTGAGG	2280
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VERSION    AC079988.6 GI:18873965
KEYWORDS  HTG.
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 211305)
            Sulston, J.E. and Waterston, R.
            Toward a complete human genome sequence
            Genome Res. 8 (11), 1097-1108 (1998)
            99063792
            PUBMED 9847074
REFERENCE  2 (bases 1 to 211305)
            Waligorski, J., Haakenson, W. and Boyer, E.
            The sequence of Homo sapiens BAC clone RP11-795C1
            Unpublished (2001)
REFERENCE  3 (bases 1 to 211305)
            Waterston, R.H.
            Direct Submission
            Submitted (20-SEP-2000) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
            4 (bases 1 to 211305)
            Waterston, R.H.
            Direct Submission
            Submitted (23-FEB-2002) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
            5 (bases 1 to 211305)
            Waterston, R.
            Direct Submission
            Submitted (09-MAR-2002) Department of Genetics, Washington
            University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
            On Feb 23, 2002 this sequence version replaced gi:18042517.
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            Center code: WUGSC
            Web site: http://genome.wustl.edu/gsc
            Contact: sapiens@watson.wustl.edu
            ----- Summary Statistics
            -----
            Center project name: H_N90795C01
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NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

#### MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

#### SOURCE INFORMATION:

The RP11-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tatenio, M., Catanese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. *Genomics* 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>

VECTOR: pBACe3.6

#### NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP11-60M20, 2000 bp overlap. Actual start of this clone is at base position 1 of RP11-795C1; actual end is at base position 111002 of RP11-6906.

Single plasmid region exists between 76851 and 76869. Polymorphisms exists between AC067960, AC013399 and AC079988. Data from AC067960 and AC013399 was used to finish AC079988.

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Patent: WO 02068633-A 91 06-SEP-2002;  
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DB	1979	GTCCTGAGAGGCCCTGAGTGGGCGAGGCGGCGAGGGGAGTTTTCAGGGCTTCATCAA	1920						
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ACCESSION AR204690.1 GI:21502081
VERSION AR204690.1
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 1853)
AUTHORS Daniel,S., Gilmore,J., Stuart,S.G. and Stuve,L.L.
TITLE Detection of altered expression of genes regulating cell
proliferation
JOURNAL Patent: US 6368794-A 3 09-APR-2002;
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QY      2734 AAAAAATAAAAAA 2747
DB      1741 AAAAAATAAAAAA 1754

RESULT 6
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LOCUS      88036 bp DNA linear HTG 01-FEB-2003
DEFINITION Homo sapiens chromosome 17 clone RP11-1162K6 map 17, LOW-PASS
SEQUENCE SAMPLING.
AC139359
VERSION    1 GI:28191551
KEYWORDS   HTG; HTGS_PHASE0.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 88036)
AUTHORS   Birren,B., Nusbaum,C. and Lander,E.
TITLE     Homo sapiens chromosome 17, clone RP11-1162K6
JOURNAL   Unpublished
REFERENCE  2 (bases 1 to 88036)
AUTHORS   Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
            Anderson,S., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T.,
            Boguslavsky,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,Y.,
            Collumore,A., Cook,A., Cooke,P., Corum,B., Dearellano,K.,
            Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S.,
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            Hall,J., Horton,L., Hulme,M., Iliev,I., Johnson,R., Jones,C.,
            Kamat,A., Karatas,A., Kelis,C., Lander,E., Levine,R.,
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            Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X.,
            Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
            Direct Submission
            Submitted (01-FEB-2003) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
            All repeats were identified using RepeatMasker:
            Smit, A.F.A. & Green, P. (1996-1997)
            http://ftp.genome.washington.edu/RM/RepeatMasker.html
            ----- Genome Center
            Center: Whitehead Institute/ MIT Center for Genome Research
            Center code: WIBR
            Web site: http://www-seq.wi.mit.edu
            Contact: sequence_submissions@genome.wi.mit.edu
            ----- Project Information
            Center project name: l29391
            Center clone name: 1162_K_6
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            * NOTE: This record contains 94 individual
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* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.
* 1 856: contig of 856 bp in length
* 857 956: gap of 100 bp
* 957 1784: contig of 828 bp in length
* 1785 1884: gap of 100 bp
* 1885 2709: contig of 825 bp in length
* 2710 2809: gap of 100 bp
* 2810 3605: contig of 796 bp in length
* 3606 3705: gap of 100 bp
* 3706 4555: contig of 850 bp in length
* 4556 4656: gap of 100 bp
* 4657 5497: contig of 841 bp in length
* 5498 5597: gap of 100 bp
* 5598 6438: contig of 842 bp in length
* 6439 6538: gap of 100 bp
* 6539 7389: contig of 851 bp in length
* 7390 7489: gap of 100 bp
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* 8317 8416: gap of 100 bp
* 8417 9255: contig of 839 bp in length
* 9256 9356: gap of 100 bp
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* 12060 12159: gap of 100 bp
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* 14796 14895: gap of 100 bp
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* 16792 17440: contig of 849 bp in length
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* 25144 25243: gap of 100 bp
* 25244 26055: contig of 812 bp in length
* 26056 26155: gap of 100 bp
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* 27001 27100: gap of 100 bp
* 27101 27947: contig of 847 bp in length
* 27948 28047: gap of 100 bp
* 28048 28896: contig of 849 bp in length
* 28897 28996: gap of 100 bp
* 28997 29847: contig of 851 bp in length
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* 30884 31729: contig of 846 bp in length
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* 31830 32675: contig of 846 bp in length
* 32676 33614: gap of 100 bp
* 33615 33714: contig of 839 bp in length
* 33715 34559: contig of 845 bp in length
* 34560 34659: gap of 100 bp
* 34660 35489: contig of 830 bp in length
* 35490 35589: gap of 100 bp
* 35590 36408: contig of 819 bp in length
* 36409 36508: gap of 100 bp
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* 37316 38262: contig of 847 bp in length
* 38263 39213: contig of 851 bp in length
* 39214 39313: gap of 100 bp
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* 60940 61784: contig of 845 bp in length
* 61785 62735: contig of 851 bp in length
* 62736 63686: contig of 851 bp in length
* 63687 63786: gap of 100 bp

* 63787 64628: contig of 842 bp in length
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* 64729 65571: contig of 843 bp in length

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Best Local Similarity 77.9%; Pred. No. 7.7e-193;
Matches 838; Conservative 0; Mismatches 238; Indels 0; Gaps 0;

QY 427 TCTGAAACCCCACTTAGCTTCCAGACCTTCTGCAAAAGCTCTCTCGGCTTTCCTCC 486
Db |-----|
QY 487 CTCCCCCAATCTATGGGTACAGCTAACAGATCTGAGGCACTCTGCTGTAGTGCGCA 546
Db |-----|
QY 73067 NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 73068
QY 547 GGGCTGCACCTGCCATCCCGGCTCTGCCACCTTTAGGGCCTTTAGAGCAGCTGTCTTA 606
Db |-----|
QY 73007 GGGCTGCACCTGCCATCCCGGCTCTGCCACCTTTAGGGCCTTTAGAGCAGCTGTCTTA 72948
QY 607 GGAAGTAGCTCTGAGGCATGGGTTTCTGCTCTCTGTCAGGGCAGCTGATGGATAAGT 666
Db |-----|
QY 72947 GGAAGTAGCTCTGAGGCATGGGTTTCTGCTCTCTGTCAGGGCAGCTGATGGATAAGT 72888
QY 667 GGGGAAGGACGCTCAGTCTTGGGCCCCAGCTGGCCAGCTGGCGATGGGAAACCAAC 726
Db |-----|
QY 72887 GGGGAAGGACGCTCAGTCTTGGGCCCCAGCTGGCCAGCTGGCGATGGGAAACCAAC 72828
QY 727 CATGCCCCCAGGAAGGCCAGAGTGGAACTGTCTCATGCTTCTGCTTCTGCTGAGGAG 786
Db |-----|
QY 72827 CATGCCCCCAGGAAGGCCAGAGTGGAACTGTCTCATGCTTCTGCTTCTGCTGAGGAG 72768
QY 787 CCTGAGGTGGCAGCAGGGGCCAGGGGAAGTTTTCAGGCCCTTCATCAAGAGAACACA 846
Db |-----|
QY 72767 CCTGAGGTGGCAGCAGGGGCCAGGGGAAGTTTTCAGGCCCTTCATCAAGAGAACACA 72708
QY 847 TCTCAGCTCCGACCCCTCATCTGTATCAGCACTTACCGGTGTGTGCTGCTGCTGCTGTC 906
Db |-----|
QY 72707 TCTCAGCTCCGACCCCTCATCTGTATCAGCACTTACCGGTGTGTGCTGCTGCTGCTGTC 72648
QY 907 AGCTAGCATCGTGGGCCACCTGGCCACCTGGCGTGTATGCGCACTGATTTATGATAG 966
Db |-----|
QY 72647 AGCTAGCATCGTGGGCCACCTGGCCACCTGGCGTGTATGCGCACTGATTTATGATAG 72588
QY 967 GGAATATTATCTTTGAAACCCAAATGAAGTGTTTTCTCCGCCCATCAAAAAAATCT 1026
Db |-----|
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QY 1027 TATTTTAGTAGACATGATTTTACCAAAAATGATGACTCAATTTATTTTGGATT 1086
Db |-----|
QY 72527 TATTTTAGTAGACATGATTTTACCAAAAATGATGACTCAATTTATTTTGGATT 72468
QY 1087 ATCAATTTAAAAATTTGTAAGTGTGTTTGTCTTACCGCAACATAATTTGATTTTGGC 1146
Db |-----|
QY 72467 ATCAATTTAAAAATTTGTAAGTGTGTTTGTCTTACCGCAACATAATTTGATTTTGGC 72408
QY 1147 TTTTGGCTCTGAAAGCCCAAAAATTTACCGGTGTAGCCGTTTACAGAAAATCTGCTGA 1206
Db |-----|
QY 72407 TTTTGGCTCTGAAAGCCCAAAAATTTACCGGTGTAGCCGTTTACAGAAAATCTGCTGA 72348
QY 1207 CTACTGAGCCAGACCTCCATTTACCTCCCTGTTGGATTATTTTAAAGAAAGCTCAGA 1266
Db |-----|
QY 72347 CTACTGAGCCAGACCTCCATTTACCTCCCTGTTGGATTATTTTAAAGAAAGCTCAGA 72288
QY 1267 CAGTAAGGCTTTTAAAAAGAAATAAATGACTTGTGCTTGGCGCTTGGAGCAGGGAAGC 1326
Db |-----|
QY 72287 CAGTAAGGCTTTTAAAAAGAAATAAATGACTTGTGCTTGGCGCTTGGAGCAGGGAAGC 72228
QY 1327 ATTCAGATGAGCGTTTCTGCAATTAACCTGCTATCAGCATCTCGTGTCTGTGTGGC 1386
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QY 1387 TGGCGAGCCCCCTTTGGAAGGTTCTGGTGTCTTCTGAGTGGCTCCTGAGAGTCCACCCGCGC 1446
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861	CCCTCATCTGTATCAGCACTTACCGGTGTGTGACTGCCCTGTGACTACATACGGT	920	
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Matches 237; Conservative 1; Mismatches 0; Indels 2; Gaps 1;

QY 2381 CTCCCGGCTGGGTGAACACGGTACTGTCTCTAATGTCATGTAATTAAT 2440
DB 251 CTCCCGGCTGGGTGAACACGGTACTGTCTCTAATGTCATGTAATTAAT 192
QY 2441 GATTTCCTTCTAAAGATGTAACTCCACACCTTCTCCAGATTGGTGACCTTTCTAA 2500
DB 191 GATTTCCTTCTAAAGATGTAACTCCACACCTTCTCCAGATTGGTGACCTTTCTAA 132
QY 2501 AGTGGTGGAGTACTCTGTGGGGTGGTGGCCCTTGGATGGGTCAAGTGGTGAGA 2560
DB 131 AGTGGTGGAGTACTCTGTGGGGTGGTGGCCCTTGGATGGGTCAAGTGGTGAGA 72
QY 2561 GGTCTCTGGGAGT--GGCGGTGAGCTCAAGTGTCTCTACTGCCAGTTTGTGACCT 2618
DB 71 GGTCTCTGGGAGTGGCGGGTGTGAGCTCAAGTGTCTCTACTGCCAGTTTGTGACCT 12

RESULT 13
AC134136/c
FOCUS
DEFINITION
Rattus norvegicus clone CH230-298J1, *** SEQUENCING IN PROGRESS
***, 2 unordered pieces.
AC134136
AC134136.2 GI:25138971
HTG: HTGS PHASE1; HTGS DRAFT; HTGS_ENRICHED.
Rattus norvegicus (Norway rat)
SOURCE
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 190379)
Muzny,D,Marie., Metzker,M, Lee., Abramson,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alshrooks,S., Amin,A., Anguiano,D.,
Anvallebechi,V., Ayagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Denson,S., Deramo,C., Ding,X., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Frazer,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebregeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Hagland,W., Hamil,C., Hamilton,C., Hamilton,K.,
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Hollins,B., Howells,S., Huiyik,S., Hume,J., Idiebird,D., Jackson,A.,
Jackson,L., Jacob,S., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpatiy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowls,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorenshewa,L., Louisedge,H., Lozano,R.J., Lu,X., Ma,J.,
Maheshwari,M., Mahindradevi,M., Mamoud,M., Malloy,K., Mangum,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhinney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
Morgan,M., Morris,K., Morris,S., Munitasa,M., Murphy,M., Nair,L.,
Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,
Nwackemele,O., Okwuonu,G., Olarpunagoon,A., Pal,S., Parks,K.,
Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C.,
Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
Puzo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
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Sanders,W., Savery,G., Scherer,S., Scott,G., Shatman,S., Shen,H.,
Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D.,
Snead,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steinle,M., Strong,R., Sutton,A., Svatek,A., Tabot,P., Taylor,C.,
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Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wlezyk,R., Wooden,H., Wolley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.
Direct Submission
Unpublished
2 (bases 1 to 190379)
Rat Genome Sequencing Consortium.
Rat Genome Sequencing Consortium.
Submitted (23-SEP-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 190379)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (20-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 20, 2002 this sequence version replaced gi:23269326.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: KCCX
Center clone name: CH230-298J1
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 169342 bases at least Q40
Consensus quality: 171971 bases at least Q30
Consensus quality: 174193 bases at least Q20
Estimated insert size: 172482; sum-of-contigs estimation
Quality coverage: 5x in Q20 bases; sum-of-contigs estimation
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 14191: contig of 14191 bp in length
* 14192 14291: gap of unknown length
* 14292 190379: contig of 176088 bp in length.
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Percentage of bases with a quality value >= 40 : 99 %.

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Db 36767 GATGAATATCTTTGTTGATGATGGAGACATTAATCTTTAAACCAACAATTAGGCAAAA 36826  
Qy 1000 CTCGCCCATCACAAAAAATAATCTTATTTTAGTAGACATGTATTACCAAAATAT 1059  
Db 36827 TGCTATCCATAAAAAAGAAATCCATTTTCTCATTAGTACCTATATAATAAATATT 36886  
Qy 1060 GTACTCAATTATGTTATTTGCAATTTATCAATTTAAATAATGGAATTTGTTGCTC 1119  
Db 36887 GTACTTACTTATGTTTAAATTTATCAAA-TAATAATTAAGAAATTTGTTGTC 36945  
Qy 1120 TTA-----CGCCAAACATAAATATTGATTTTGCCTCTTGCGCTCTGAAGCCCAAA 1167  
Db 36946 TTGTTATGTAAGTGTCTGCATAATATCCTTGATTCGCTCTTGCGCTCTGCACAGCCTAAA 37005  
Qy 1168 ATATTACCGTCTAGCCGTTACAGAAAAAGTCTGCTGACTACTGAGCCAGACCTCCATT 1227  
Db 37006 ATACTTACTATCTGGTCTCTGCGAACAAATATGCTGACTCCCTGCTCTTTTGTATGGGA 37065  
Qy 1228 ACCTCCATCCCTGTGGGATTTTAAAGAAAGCCTCAGACAGTAAGGGCTTTTAAAAAG 1287  
Db 37066 TATTTCACTTTGAAATTTGTTCTCAAGCCAAAGAAATGGAAGGAATCAGACTGTTAAGAG 37125  
Qy 1288 AATAAAATGACTTGGTTGCGCTTGGAGCA 1318  
Db 37126 CTGGAAGGCCCTCGAGGTCTTCTTAACCA 37156

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